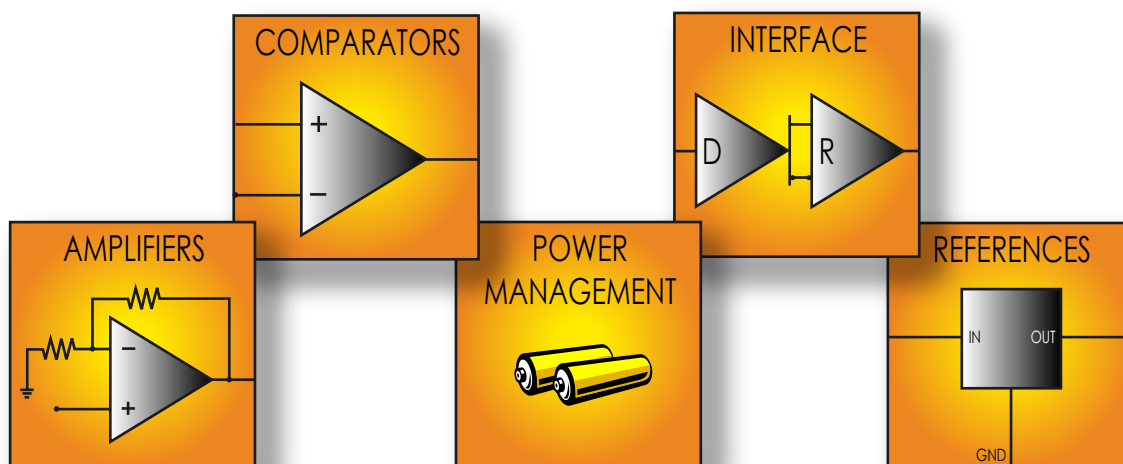


# Standard Linear Products

## Cross-Reference

Including Amplifiers, Comparators, Timers, Peripheral Drivers, Power Management Controllers, References, Regulators, Supervisors, Shunts, Transmitters and Receivers



# Standard Linear Products Cross-Reference

## Introduction

This Standard Linear Products Cross-Reference for Buyers and Distribution Specialists will assist in finding a device made by Texas Instruments that is similar or identical to many of our competitors' standard linear products.

The Cross-Reference is divided into two sections. The first, titled *Standard Linear Cross-Reference by Device* lists devices in alphanumeric order with the TI equivalent device following the competitor's device. Pin counts, available package types, available temperature ranges, and a usage code follow.

The second section is a Packaging Information and Cross-Reference by Manufacturer.

**Designers and others needing more comprehensive information about the full range of Texas Instruments advanced analog products should visit the following internet site:**

[analog.ti.com](http://analog.ti.com)

**Additional publications and references can be found at this site.**

**Important:** Where so designated, Texas Instruments referenced devices are believed to be pin-for-pin electrically interchangeable. However, TI does not guarantee that interchangeability in a particular application is exact in all respects. Therefore, the applicable data sheets should be used to determine product interchangeability.

## Notice

The TI equivalent devices are designated by Usage Code indicating their degree of suitability as a replacement. Every effort was made to insure the accuracy of this information but Texas Instruments does not guarantee or warrant that the cross-reference information is correct in all cases.

There are two Usage Codes given:

**S** – Replacement or Equivalent part type

**Q** – Same functionality but not an exact equivalent

**This Cross-Reference includes products with an “S” or “Q” designation. These codes must be used as a guide only.**



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For TI Worldwide Technical Support, see back cover.



# Standard Linear Products Cross-Reference by Device

A431—AZ431A

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
A431	AST	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
AD589	Analog Devices (ADI)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
AD746	Analog Devices (ADI)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	Q
AD822	Analog Devices (ADI)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
AD824	Analog Devices (ADI)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
AD8544	Analog Devices (ADI)	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
ADM207E	Analog Devices (ADI)	MAX207	24	SOIC, SSOP	0° to 70°, -40° to 85°	S
ADM208	Analog Devices (ADI)	MAX208	24	PDIP, SOIC, SSOP	0° to 70°, -40° to 85°	S
ADM208E	Analog Devices (ADI)	MAX208	24	PDIP, SOIC, SSOP	0° to 70°, -40° to 85°	S
ADM211E	Analog Devices (ADI)	MAX211	28	SOIC, SSOP	0° to 70°, -40° to 85°	S
ADM232A	Analog Devices (ADI)	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
ADM232L	Analog Devices (ADI)	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
ADP3309-2.85	Analog Devices (ADI)	LP2985-28*	5	SOT-23	-40° to 125°	S
ADP3309-3.0	Analog Devices (ADI)	LP2985-30	5	SOT-23	Planned	S
ADP3309-3.3	Analog Devices (ADI)	LP2985-33*	5	SOT-23	-40° to 125°	S
ALD1701	Advanced Linear Devices	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ALD1702	Advanced Linear Devices	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ALD1703	Advanced Linear Devices	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
AN1081	Matsushita (Panasonic)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
AN1081	Matsushita (Panasonic)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
AN1082	Matsushita (Panasonic)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
AN1082	Matsushita (Panasonic)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
AN1084	Matsushita (Panasonic)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
AN1084	Matsushita (Panasonic)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
AN1311	Matsushita (Panasonic)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
AN1311	Matsushita (Panasonic)	LP311	8	PDIP, SOIC, SOP	0° to 70°	Q
AN1324	Matsushita (Panasonic)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
AN1324	Matsushita (Panasonic)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
AN1339	Matsushita (Panasonic)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
AN1339	Matsushita (Panasonic)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
AN1358	Matsushita (Panasonic)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
AN1358	Matsushita (Panasonic)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
AN1393	Matsushita (Panasonic)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
AN1393	Matsushita (Panasonic)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
AN1431	Matsushita (Panasonic)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
AN1431	Matsushita (Panasonic)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
AN4558	Matsushita (Panasonic)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
AN6912	Matsushita (Panasonic)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
AN6912	Matsushita (Panasonic)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
APL431A	Anpec Electronics	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
APL431B	Anpec Electronics	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
APW34063	Anpec Electronics	MC34063A	8	PDIP, SOIC	0° to 70°	S
AS1004-1.2	Alpha Semiconductor	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	S
AS1431	AST	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	S
AU2901	Philips Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
AU2902	Philips Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
AU2903	Philips Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
AU2904	Philips Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
AU7555	Philips Semiconductor	TLC555	8, 14	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°, -55° to 125°	Q
AZ431A	Advanced Analog Circuits Corporation (AAC)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
AZ431A	Advanced Analog Circuits Corporation (AAC)	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
AZ431B	Advanced Analog Circuits Corporation (AAC)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
AZ431L	Advanced Analog Circuits Corporation (AAC)	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
BA10324	Rohm Electronics	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
BA10324	Rohm Electronics	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
BA10339	Rohm Electronics	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
BA10339	Rohm Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
BA10358	Rohm Electronics	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
BA10358	Rohm Electronics	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
BA10393	Rohm Electronics	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
BA10393	Rohm Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
BA12003	Rohm Electronics	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
BA4510	Rohm Electronics	TLV2362	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
BA4558	Rohm Electronics	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
BA4560	Rohm Electronics	RC4560	8	PDIP, SOIC	-40° to 85°	S
BA4560	Rohm Electronics	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
BA707	Rohm Electronics	TPS7233	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
BA728	Rohm Electronics	TLV2362	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
CA0239	Intersil	LM239	14	PDIP, SOIC, TSSOP	-25° to 85°	S
CA0324	Intersil	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
CA0324	Intersil	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
CA0339	Intersil	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
CA0339	Intersil	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
CA0358	Intersil	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
CA0358	Intersil	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
CA0358A	Intersil	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
CA3193	Intersil	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
CA324	Intersil	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
CA324	Intersil	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
CA3240	Intersil	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
CA3260	Intersil	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
CA339	Intersil	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
CA358	Intersil	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
CA358	Intersil	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
CA358	Intersil	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
CA5420	Intersil	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
CA741	Intersil	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
CMP04	Analog Devices (ADI)	TLC339	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	Q
DS14185	National Semiconductor (NSC)	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
DS14185	National Semiconductor (NSC)	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
DS14196	National Semiconductor (NSC)	SN75LP196	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
DS2003	National Semiconductor (NSC)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
DS2118M	Maxim	UCC5630A	36, 48	LQFP, SSOP	0° to 70°	S
DS2119	Maxim	UCC5672	28, 36	SSOP, TSSOP	0° to 70°	Q
DS2125	Maxim	UCC5638	48	LQFP	0° to 70°	S
DS26C31	National Semiconductor (NSC)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
DS26C32	National Semiconductor (NSC)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
DS26C32A	National Semiconductor (NSC)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
DS26LS31	National Semiconductor (NSC)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
DS26LS31	National Semiconductor (NSC)	AM26LS31	16	PDIP, SOIC, SOP, SSOP	0° to 70°	S
DS26LS32	National Semiconductor (NSC)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
DS26LS32A	National Semiconductor (NSC)	AM26LS32A	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
DS26LV31	National Semiconductor (NSC)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
DS26LV32A	National Semiconductor (NSC)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
DS75176B	National Semiconductor (NSC)	SN75176B	8	PDIP, SOIC, SOP	0° to 70°	S
DS75176BT	National Semiconductor (NSC)	SN65176B	8	PDIP, SOIC	-40° to 105°	S
DS90LV011A	National Semiconductor (NSC)	SN65LVDS1	5, 8	SOIC, SOT-23	-40° to 85°	Q
DS90LV031	National Semiconductor (NSC)	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	S
DS90LV031A	National Semiconductor (NSC)	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	S
DS90LV031B	National Semiconductor (NSC)	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	Q
DS90LV032	National Semiconductor (NSC)	SN65LVDS32	16	SOIC, SOP, TSSOP	-40° to 85°	S
DS90LV032A	National Semiconductor (NSC)	SN65LVDS32	16	SOIC, SOP, TSSOP	-40° to 85°	S
DS90LV047	National Semiconductor (NSC)	SN65LVDS047	16	SOIC, TSSOP	-40° to 85°	S
DS90LV047A	National Semiconductor (NSC)	SN65LVDS047	16	SOIC, TSSOP	-40° to 85°	S
DS90LV048	National Semiconductor (NSC)	SN65LVDS048A	16	SOIC, TSSOP	-40° to 85°	S
DS90LV048A	National Semiconductor (NSC)	SN65LVDS048A	16	SOIC, TSSOP	-40° to 85°	S
DS9667	National Semiconductor (NSC)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
FAN431	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
FAN431A	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
FAN431L	Fairchild Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
FIN1031	Fairchild Semiconductor	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	Q
FIN1032	Fairchild Semiconductor	SN65LVDS32	16	SOIC, SOP, TSSOP	-40° to 85°	Q
FIN1531	Fairchild Semiconductor	AM26LS31	16	PDIP, SOIC, SOP, SSOP	0° to 70°	Q
FIN1532	Fairchild Semiconductor	AM26LS32A	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
FSA3357	Fairchild Semiconductor	TS5A3357	8	SM8, US8	-40° to 85°	S
FSA3357	Fairchild Semiconductor	TS5A3357	8	SM8, US8	-40° to 85°	S
FSA4157A	Fairchild Semiconductor	TS5A3159	6	SC-70, SOT-23	-40° to 85°	S
FSAV330	Fairchild Semiconductor	TS5V330	16	QFN, SOIC, SSOP/QSOP, TSSOP	-40° to 85°	S
GD75232	LG Semicon	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	S
GD75232	LG Semicon	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
GD75323	LG Semicon	SN75LP196	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
GS431B	Vishay Siliconix (SI)	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
GS431B	Vishay Siliconix (SI)	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA16118	Renesas (Hitachi)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
HA16119	Renesas (Hitachi)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
HA17074	Renesas (Hitachi)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
HA17074	Renesas (Hitachi)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
HA17082	Renesas (Hitachi)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
HA17082	Renesas (Hitachi)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
HA17084	Renesas (Hitachi)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
HA17084	Renesas (Hitachi)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HA17324	Renesas (Hitachi)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
HA17324	Renesas (Hitachi)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
HA17339	Renesas (Hitachi)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
HA17339	Renesas (Hitachi)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
HA17358	Renesas (Hitachi)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
HA17384	Renesas (Hitachi)	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
HA17385	Renesas (Hitachi)	UC3843	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
HA17393	Renesas (Hitachi)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
HA17393	Renesas (Hitachi)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
HA17431	Renesas (Hitachi)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product



Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
HA17431H	Renesas (Hitachi)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HA17431H	Renesas (Hitachi)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17431V	Renesas (Hitachi)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HA17431V	Renesas (Hitachi)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432A	Renesas (Hitachi)	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432H	Renesas (Hitachi)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432H	Renesas (Hitachi)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432U	Renesas (Hitachi)	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432V	Renesas (Hitachi)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HA17432V	Renesas (Hitachi)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
HA17474	Renesas (Hitachi)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
HA17558	Renesas (Hitachi)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
HA17901	Renesas (Hitachi)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
HA17901	Renesas (Hitachi)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	Q
HA17902	Renesas (Hitachi)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
HA17902	Renesas (Hitachi)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
HA17903	Renesas (Hitachi)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
HA17903	Renesas (Hitachi)	LM333	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
HA17904	Renesas (Hitachi)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
HA17904	Renesas (Hitachi)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
HA17L431	Renesas (Hitachi)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
HA17L431A	Renesas (Hitachi)	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
HA17L432	Renesas (Hitachi)	TLV432	3	SOT-23, SOT-89	Planned	S
HA17L432A	Renesas (Hitachi)	TLV432A	3	SOT-23	Planned	S
HA4741	Intersil	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
HD26C31	Renesas (Hitachi)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HD26C32	Renesas (Hitachi)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
HD26LS31	Renesas (Hitachi)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
HD26LS32	Renesas (Hitachi)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
HIN207	Intersil	MAX207	24	SOIC, SSOP	0° to 70°, -40° to 85°	S
HIN232	Intersil	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
HT6571	Holtek Semiconductor, Inc.	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	S
HT6571	Holtek Semiconductor, Inc.	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
ICL232	Intersil	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
ICL3221	Intersil	MAX3221*	16	SSOP, TSSOP	0° to 70°, -40° to 85°	S
ICL3243	Intersil	MAX3243*	28	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
ICL7611	ICL (Philips)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7611	Intersil	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7611	Maxim	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7612	ICL (Philips)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7612	Intersil	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7612	Maxim	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7613	ICL (Philips)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7621	ICL (Philips)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Intersil	TLC25M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Intersil	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Maxim	TLC25M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Maxim	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Philips Semiconductor	TLC25M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7621	Philips Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7641	ICL (Philips)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

ICL7641—KA258A

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
ICL7641	ICL (Philips)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7641	Intersil	TLC25M4	8, 14	PDIP, SOIC, TSSOP	0° to 70°	Q
ICL7641	Intersil	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7641	Intersil	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7641	Maxim	TLC25M4	8, 14	PDIP, SOIC, TSSOP	0° to 70°	Q
ICL7641	Maxim	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7641	Maxim	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7641	Philips Semiconductor	TLC25M4	8, 14	PDIP, SOIC, TSSOP	0° to 70°	Q
ICL7641	Philips Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7641	Philips Semiconductor	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
ICL7642	Intersil	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7642	Maxim	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7642	Philips Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
ICL7660	Maxim	LT1054	8, 16	PDIP, SOIC	0° to 70°, -40° to 85°	Q
ICL7664	Maxim	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
ICM7555	Maxim	TLC555	8, 14	CDIP, PDIP, SOIC, SOP, TSSOP	0 to 70, -40 to 85, -40 to 125, -55 to 125°	Q
ICM7555	Philips Semiconductor	TLC555	8, 14	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70, -40 to 85, -40 to 125, -55 to 125°	Q
ICM7556	Maxim	TLC556	14	PDIP, SOIC	0° to 70°	Q
IP33063	SemeLab	MC33063A	8	PDIP, SOIC	-40° to 85°	S
IP34063	SemeLab	MC34063A	8	PDIP, SOIC	0° to 70°	S
IR2339	Sharp Corporation	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
IR2339	Sharp Corporation	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
IR2C36	Sharp Corporation	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
IR3702	Sharp Corporation	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
IR3F01	Sharp Corporation	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
IR3M02	Sharp Corporation	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
IR9082	Sharp Corporation	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
IR9082	Sharp Corporation	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
IR9084	Sharp Corporation	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
IR9084	Sharp Corporation	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
IR9161	Sharp Corporation	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	Q
IR9311	Sharp Corporation	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
IR9311	Sharp Corporation	LP311	8	PDIP, SOIC, SOP	0° to 70°	Q
IR93403	Sharp Corporation	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
IR9358	Sharp Corporation	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
IR9358	Sharp Corporation	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
IR9393	Sharp Corporation	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
IR9393	Sharp Corporation	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
IR9431	Sharp Corporation	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
IR9431	Sharp Corporation	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
IR94558	Sharp Corporation	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
IR94559	Sharp Corporation	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
IR9494	Sharp Corporation	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
IR9494	Sharp Corporation	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
KA1458	Fairchild Semiconductor	MC1458	8	PDIP, SOIC, SOP	0° to 70°	S
KA224	Fairchild Semiconductor	LM224	14	PDIP, SOIC	-25° to 85°	S
KA224A	Fairchild Semiconductor	LM224A	14	PDIP, SOIC	-25° to 85°	S
KA239	Fairchild Semiconductor	LM239	14	PDIP, SOIC, TSSOP	-25° to 85°	S
KA239A	Fairchild Semiconductor	LM239	14	PDIP, SOIC, TSSOP	-25° to 85°	S
KA239A	Fairchild Semiconductor	LM239A	14	SOIC	-25° to 125°	S
KA248	Fairchild Semiconductor	LM248	14	PDIP, SOIC	-25° to 85°	S
KA258	Fairchild Semiconductor	LM258	8	PDIP, MSOP, SOIC	-25° to 85°	S
KA258A	Fairchild Semiconductor	LM258A	8	PDIP, MSOP, SOIC	-25° to 85°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
KA2901	Fairchild Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
KA2902	Fairchild Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
KA2903	Fairchild Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
KA2904	Fairchild Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
KA311	Fairchild Semiconductor	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA317	Fairchild Semiconductor	LM317	3, 4	PFM, SOT-223, TO-220	0° to 125°	S
KA317L	Fairchild Semiconductor	TL317	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
KA317M	Fairchild Semiconductor	LM317M	2, 4	PFM, TO-223	0° to 125°, -40° to 125°	S
KA324	Fairchild Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA324	Fairchild Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
KA324A	Fairchild Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
KA3302	Fairchild Semiconductor	LM3302	14	PDIP, SOIC	-40° to 85°	S
KA3303	Fairchild Semiconductor	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	S
KA337	Fairchild Semiconductor	LM337	2, 3	PFM, TO-220	0° to 125°	S
KA339	Fairchild Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
KA339	Fairchild Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
KA339A	Fairchild Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
KA3403	Fairchild Semiconductor	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA34063A	Fairchild Semiconductor	MC34063A	8	PDIP, SOIC	0° to 70°	S
KA348	Fairchild Semiconductor	LM348	14	PDIP, SOIC, SOP	0° to 70°	S
KA3524	Fairchild Semiconductor	SG3524	16	PDIP, SOIC, SOP	0° to 70°	S
KA358	Fairchild Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA358	Fairchild Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
KA393	Fairchild Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA393	Fairchild Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA393A	Fairchild Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA393A	Fairchild Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA431	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431A	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431L	Fairchild Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431S	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431S	Fairchild Semiconductor	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
KA431SA	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431SA	Fairchild Semiconductor	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
KA431SL	Fairchild Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
KA431SL	Fairchild Semiconductor	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
KA4558	Fairchild Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
KA4558	Fairchild Semiconductor	RC4559	8	PDIP, SOIC	0° to 70°	S
KA4558A	Fairchild Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
KA5532	Fairchild Semiconductor	NE5532	8	PDIP, SOIC, SOP	0° to 70°	S
KA555	Fairchild Semiconductor	NE555	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
KA555	Fairchild Semiconductor	SA555	8	PDIP, SOIC	-40° to 85°	S
KA556	Fairchild Semiconductor	NE556	14	PDIP, SOIC, SOP, SSOP	0° to 70°	S
KA556	Fairchild Semiconductor	SA556	14	PDIP	-40° to 85°	S
KA723	Fairchild Semiconductor	UA723	14	PDIP, SOIC, SOP	0° to 70°	S
KA741	Fairchild Semiconductor	UA741	8	PDIP, SOIC, SOP	0° to 70°	S
KA7805	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
KA7805A	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
KA7805AE	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
KA7805E	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

KA7808—KF353

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
KA7808	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
KA7808A	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
KA7808AE	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
KA7808E	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
KA7810	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
KA7810A	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
KA7810AE	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
KA7810E	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
KA7812	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
KA7812A	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
KA7812AE	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
KA7812E	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
KA7815	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
KA7815A	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
KA7815AE	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
KA7815E	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
KA7824	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
KA7824A	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
KA7824AE	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
KA7824E	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
KA78L05A	Fairchild Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
KA78L05AA	Fairchild Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
KA78L06A	Fairchild Semiconductor	UA78L06A	3	SOT-89, TO-92	0° to 125°	S
KA78L08A	Fairchild Semiconductor	UA78L08A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
KA78L09A	Fairchild Semiconductor	UA78L09A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
KA78L10A	Fairchild Semiconductor	UA78L10A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
KA78L12A	Fairchild Semiconductor	UA78L12A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
KA78L15A	Fairchild Semiconductor	UA78L15A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
KA78M05	Fairchild Semiconductor	UA78M05	2, 3, 4	SOT-223, TO-220, PFM	0° to 125°, -40° to 125°	S
KA78M06	Fairchild Semiconductor	UA78M06	2	PFM	0° to 125°	S
KA78M08	Fairchild Semiconductor	UA78M08	2, 3, 4	SOT-223, TO-220, PFM	0° to 125°	S
KA78M12	Fairchild Semiconductor	UA78M12	2, 3	PFM, TO-220	0° to 125°	S
KA7905	Fairchild Semiconductor	UA7905	3	TO-220	0° to 125°	S
KA7905A	Fairchild Semiconductor	UA7905	3	TO-220	0° to 125°	S
KA7908	Fairchild Semiconductor	UA7908	3	TO-220	0° to 125°	S
KA7912	Fairchild Semiconductor	UA7912	3	TO-220	0° to 125°	S
KA7912A	Fairchild Semiconductor	UA7912	3	TO-220	0° to 125°	S
KA79L05A	Fairchild Semiconductor	MC79L05A	3, 8	SOIC, TO-92	0° to 125°	S
KA79L12A	Fairchild Semiconductor	MC79L12A	3, 8	SOIC, TO-92	0° to 125°	S
KA79L15A	Fairchild Semiconductor	MC79L15A	3	TO-92	0° to 125°	S
KA79L18A	Fairchild Semiconductor	MC79L15A	3	TO-92	0° to 125°	S
KA79M05	Fairchild Semiconductor	UA79M05	2, 3	PFM, TO-220	0° to 125°	S
KA79M06	Fairchild Semiconductor	UA79M05	2, 3	PFM, TO-220	0° to 125°	S
KA79M08	Fairchild Semiconductor	UA79M08	2, 3	PFM, TO-220	0° to 125°	S
KF347	Fairchild Semiconductor	LF347	14	PDIP, SOIC	0° to 70°	S
KF347	Fairchild Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
KF347	Fairchild Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
KF347A	Fairchild Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
KF347A	Fairchild Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
KF351	Fairchild Semiconductor	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
KF351	Fairchild Semiconductor	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
KF353	Fairchild Semiconductor	LF353	8	PDIP, SOIC	0° to 70°	S
KF353	Fairchild Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
KF353	Fairchild Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
L387A	ST Microelectronics (STM)	TPS7250	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
L4970	ST Microelectronics (STM)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
L5431	Sanyo Semiconductor	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
L5431	Sanyo Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LA6082	Sanyo Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
LA6324	Sanyo Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LA6324	Sanyo Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LA6339	Sanyo Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LA6339	Sanyo Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LA6358	Sanyo Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LA6358	Sanyo Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LA6393	Sanyo Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LA6393	Sanyo Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LA6458	Sanyo Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
LB1233	Sanyo Semiconductor	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
LD2981AB 18	ST Microelectronics (STM)	LP2981A-18	5	SOT-23	Planned	S
LD2981AB 25	ST Microelectronics (STM)	LP2981A-25	5	SOT-23	Planned	S
LD2981AB 30	ST Microelectronics (STM)	LP2981A-30*	5	SOT-23	-40° to 125°	S
LD2981AB 32	ST Microelectronics (STM)	LP2981A-32	5	SOT-23	Planned	S
LD2981AB 33	ST Microelectronics (STM)	LP2981A-33*	5	SOT-23	-40° to 125°	S
LD2981AB 36	ST Microelectronics (STM)	LP2981A-36	5	SOT-23	Planned	S
LD2981AB 50	ST Microelectronics (STM)	LP2981A-50	5	SOT-23	Planned	S
LD2981C 18	ST Microelectronics (STM)	LP2981-18	5	SOT-23	Planned	S
LD2981C 25	ST Microelectronics (STM)	LP2981-25	5	SOT-23	Planned	S
LD2981C 30	ST Microelectronics (STM)	LP2981-30*	5	SOT-23	-40° to 125°	S
LD2981C 32	ST Microelectronics (STM)	LP2981-32	5	SOT-23	Planned	S
LD2981C 33	ST Microelectronics (STM)	LP2981-33*	5	SOT-23	-40° to 125°	S
LD2981C 36	ST Microelectronics (STM)	LP2981-36	5	SOT-23	Planned	S
LD2981C 50	ST Microelectronics (STM)	LP2981-50	5	SOT-23	Planned	S
LD2985A 15	ST Microelectronics (STM)	LP2985A-15	5	SOT-23	Planned	S
LD2985A 18	ST Microelectronics (STM)	LP2985A-18*	5	SOT-23	-40° to 125°	S
LD2985A 25	ST Microelectronics (STM)	LP2985A-25	5	SOT-23	Planned	S
LD2985A 28	ST Microelectronics (STM)	LP2985A-28*	5	SOT-23	-40° to 125°	S
LD2985A 285	ST Microelectronics (STM)	LP2985A-285	5	SOT-23	Planned	S
LD2985A 30	ST Microelectronics (STM)	LP2985A-30	5	SOT-23	Planned	S
LD2985A 31	ST Microelectronics (STM)	LP2985A-31	5	SOT-23	Planned	S
LD2985A 32	ST Microelectronics (STM)	LP2985A-32	5	SOT-23	Planned	S
LD2985A 33	ST Microelectronics (STM)	LP2985A-33*	5	SOT-23	-40° to 125°	S
LD2985A 50	ST Microelectronics (STM)	LP2985A-50	5	SOT-23	Planned	S
LD2985B 15	ST Microelectronics (STM)	LP2985-15	5	SOT-23	Planned	S
LD2985B 18	ST Microelectronics (STM)	LP2985-18*	5	SOT-23	-40° to 125°	S
LD2985B 25	ST Microelectronics (STM)	LP2985-25	5	SOT-23	Planned	S
LD2985B 28	ST Microelectronics (STM)	LP2985-28*	5	SOT-23	-40° to 125°	S
LD2985B 285	ST Microelectronics (STM)	LP2985-285	5	SOT-23	Planned	S
LD2985B 30	ST Microelectronics (STM)	LP2985-30	5	SOT-23	Planned	S
LD2985B 31	ST Microelectronics (STM)	LP2985-31	5	SOT-23	Planned	S
LD2985B 32	ST Microelectronics (STM)	LP2985-32	5	SOT-23	Planned	S
LD2985B 33	ST Microelectronics (STM)	LP2985-33*	5	SOT-23	-40° to 125°	S
LD2985B 50	ST Microelectronics (STM)	LP2985-50	5	SOT-23	Planned	S
LF18	ST Microelectronics (STM)	TLV2217-18	2, 3	PFM, TO-220	0° to 125°	Q
LF247	ST Microelectronics (STM)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF247	ST Microelectronics (STM)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF25	ST Microelectronics (STM)	TLV2217-25	2, 3, 20	PFM, TO-220, TSSOP	0° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

LF251—LF442

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LF251	ST Microelectronics (STM)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF251	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF253	ST Microelectronics (STM)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF253	ST Microelectronics (STM)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF33	ST Microelectronics (STM)	TLV2217-33	2, 3, 20	PFM, TO-220, TSSOP	0° to 70°	Q
LF347	Fairchild Semiconductor	LF347	14	PDIP, SOIC	0° to 70°	S
LF347	Fairchild Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF347	Fairchild Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF347	Motorola (MOT)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF347	National Semiconductor (NSC)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF347	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF347	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF347	National Semiconductor (NSC)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF347	On Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF347	On Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF347	ST Microelectronics (STM)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF347	ST Microelectronics (STM)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF351	Motorola (MOT)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF351	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF351	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF351	National Semiconductor (NSC)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF351	On Semiconductor	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF351	On Semiconductor	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF351	ST Microelectronics (STM)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF351	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF353	Fairchild Semiconductor	LF353	8	PDIP, SOIC	0° to 70°	S
LF353	Fairchild Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	Fairchild Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	Motorola (MOT)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	National Semiconductor (NSC)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF353	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	National Semiconductor (NSC)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF353	On Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	On Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	ST Microelectronics (STM)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF353	ST Microelectronics (STM)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF355	Linear Technology Corp (LTC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF355	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF355	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF356	Linear Technology Corp (LTC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF356	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF356	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF411	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF411	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF411	National Semiconductor (NSC)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF412	Linear Technology Corp (LTC)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF412	Motorola (MOT)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF412	National Semiconductor (NSC)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF412	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF412	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF412	National Semiconductor (NSC)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LF441	On Semiconductor	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF442	National Semiconductor (NSC)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LF442	On Semiconductor	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LF444	National Semiconductor (NSC)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF444	On Semiconductor	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LF451	National Semiconductor (NSC)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LF453	National Semiconductor (NSC)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LK115	ST Microelectronics (STM)	TPS7201	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LK115	ST Microelectronics (STM)	TPS7233	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LK115	ST Microelectronics (STM)	TPS7248	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LK115	ST Microelectronics (STM)	TPS7250	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LM111	Motorola (MOT)	TL031	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
LM111	Philips Semiconductor	LM111	8	CDIP	-55° to 125°	S
LM124	Philips Semiconductor	LM124	14	SOIC	-55° to 125°	S
LM139	Philips Semiconductor	LM139	14	PDIP	-55° to 125°	S
LM1458	Fairchild Semiconductor	MC1458	8	PDIP, SOIC, SOP	0° to 70°	S
LM1458	National Semiconductor (NSC)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
LM158	National Semiconductor (NSC)	LM158	8	CDIP	-55° to 125°	S
LM158A	National Semiconductor (NSC)	LM158A	8	CDIP	-55° to 125°	S
LM193	National Semiconductor (NSC)	LM193	8	CDIP	-55° to 125°	S
LM211	On Semiconductor	LM211	8	PDIP, SOIC, TSSOP	-40° to 85°, -40° to 125°	S
LM211	Philips Semiconductor	LM211	8	PDIP, SOIC, TSSOP	-40° to 85°, -40° to 125°	S
LM211	ST Microelectronics (STM)	LM211	8	PDIP, SOIC, TSSOP	-40° to 85°, -40° to 125°	S
LM224	Fairchild Semiconductor	LM224	14	PDIP, SOIC	-25° to 85°	S
LM224	Philips Semiconductor	LM224	14	PDIP, SOIC	-25° to 85°	S
LM224A	Fairchild Semiconductor	LM224A	14	PDIP, SOIC	-25° to 85°	S
LM239	Fairchild Semiconductor	LM239	14	PDIP, SOIC, TSSOP	-25° to 85°	S
LM239A	Fairchild Semiconductor	LM239	14	PDIP, SOIC, TSSOP	-25° to 85°	S
LM239A	Fairchild Semiconductor	LM239A	14	SOIC	-25° to 125°	S
LM248	Fairchild Semiconductor	LM248	14	PDIP, SOIC	-25° to 85°	S
LM258	Fairchild Semiconductor	LM258	8	PDIP, MSOP, SOIC	-25° to 85°	S
LM258	Philips Semiconductor	LM258	8	PDIP, MSOP, SOIC	-25° to 85°	S
LM258A	Fairchild Semiconductor	LM258A	8	PDIP, MSOP, SOIC	-25° to 85°	S
LM285-1-2	National Semiconductor (NSC)	LM285-1.2	4	SOIC, TO-92	-40° to 85°	S
LM285-2.5	National Semiconductor (NSC)	LM285-2.5	3, 8	SOIC, TO-92	-40° to 85°	S
LM285B-1-2	National Semiconductor (NSC)	LM285-1.2	4	SOIC, TO-92	-40° to 85°	S
LM285B-2.5	National Semiconductor (NSC)	LM285-2.5	3, 8	SOIC, TO-92	-40° to 85°	S
LM2901	Fairchild Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	Intersil	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	Motorola (MOT)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	National Semiconductor (NSC)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	National Semiconductor (NSC)	TLC339	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	Q
LM2901	On Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	Philips Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	ST Microelectronics (STM)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2901	ST Microelectronics (STM)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	Q
LM2902	Fairchild Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	Intersil	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	Motorola (MOT)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	National Semiconductor (NSC)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	On Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	Philips Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	Renesas (Hitachi)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	ST Microelectronics (STM)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2902	ST Microelectronics (STM)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM2903	Fairchild Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

**\*Must-Have Product**

# Standard Linear Products Cross-Reference by Device

LM2903—LM324

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LM2903	Motorola (MOT)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	National Semiconductor (NSC)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	On Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	Philips Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	Signetics (Philips)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	ST Microelectronics (STM)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2903	ST Microelectronics (STM)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM2904	Fairchild Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	Intersil	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	Motorola (MOT)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	National Semiconductor (NSC)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	National Semiconductor (NSC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LM2904	On Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	Philips Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	Renesas (Hitachi)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	ST Microelectronics (STM)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM2904	ST Microelectronics (STM)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM293	Fairchild Semiconductor	LM293	8	PDIP, MSOP, SOIC	-25° to 85°	S
LM293	Philips Semiconductor	LM293	8	PDIP, MSOP, SOIC	-25° to 85°	S
LM293A	Fairchild Semiconductor	LM293A	8	MSOP, SOIC	-25° to 85°	S
LM293A	Philips Semiconductor	LM293A	8	MSOP, SOIC	-25° to 85°	S
LM2980-3.3	National Semiconductor (NSC)	LP2981A-33*	5	SOT-23	-40° to 125°	S
LM308	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
LM311	Fairchild Semiconductor	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	Linear Technology Corp (LTC)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	Motorola (MOT)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	National Semiconductor (NSC)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	On Semiconductor	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	Philips Semiconductor	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	Philips Semiconductor	LP311	8	PDIP, SOIC, SOP	0° to 70°	Q
LM311	Signetics (Philips)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	ST Microelectronics (STM)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM311	ST Microelectronics (STM)	LP311	8	PDIP, SOIC, SOP	0° to 70°	Q
LM311B	Philips Semiconductor	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM317	National Semiconductor (NSC)	LM317	3, 4	PFM, SOT-223, TO-220	0° to 125°	S
LM317A	National Semiconductor (NSC)	LM317	3, 4	PFM, SOT-223, TO-220	0° to 125°	S
LM317AE	National Semiconductor (NSC)	LM317	3, 4	PFM, SOT-223, TO-220	0° to 125°	S
LM317AM	National Semiconductor (NSC)	LM317M	2, 4	PFM, TO-223	0° to 125°, -40° to 125°	S
LM317E	National Semiconductor (NSC)	LM317	3, 4	PFM, SOT-223, TO-220	0° to 125°	S
LM317L	Fairchild Semiconductor	LM317L	3, 8	SOIC, TO-93	0° to 125°	S
LM317L	National Semiconductor (NSC)	LM317L	3, 8	SOIC, TO-93	0° to 125°	S
LM317L	ST Microelectronics (STM)	LM317L	3, 8	SOIC, TO-93	0° to 125°	S
LM317M	Fairchild Semiconductor	LM317M	2, 4	PFM, TO-223	-40° to 125°, 0° to 125°	S
LM317M	National Semiconductor (NSC)	LM317M	2, 4	PFM, TO-223	-40° to 125°, 0° to 125°	S
LM320-12	National Semiconductor (NSC)	UA7912	3	TO-220	0° to 125°	S
LM320-5.0	National Semiconductor (NSC)	UA7905	3	TO-220	0° to 125°	S
LM324	Fairchild Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	Fairchild Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324	Intersil	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	Intersil	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324	Motorola (MOT)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM324	National Semiconductor (NSC)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM324	National Semiconductor (NSC)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	National Semiconductor (NSC)	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product



Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LM324	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LM324	On Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	On Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324	Philips Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM324	Philips Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	Philips Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324	Signetics (Philips)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM324	Signetics (Philips)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	ST Microelectronics (STM)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM324	ST Microelectronics (STM)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM324	ST Microelectronics (STM)	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	Intersil	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	National Semiconductor (NSC)	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	On Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	Philips Semiconductor	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	ST Microelectronics (STM)	LM324A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM324A	ST Microelectronics (STM)	LM324KA	14	PDIP, SOIC, TSSOP	0° to 70°	S
LM3302	Fairchild Semiconductor	LM3302	14	PDIP, SOIC	-40° to 85°	S
LM3303	National Semiconductor (NSC)	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	S
LM336	ST Microelectronics (STM)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	Q
LM336-2.5	Linear Technology Corp (LTC)	LT1009	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM336-2.5	National Semiconductor (NSC)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	Q
LM336-2.5	National Semiconductor (NSC)	LT1009	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM336B-2.5	Fairchild Semiconductor	LM336B-2.5	3, 8	SOIC, TO-92	0° to 70°	S
LM336B-50	Fairchild Semiconductor	LM336B-5	3	TO-92	Planned	S
LM337	Fairchild Semiconductor	LM337	2, 3	PFM, TO-220	0° to 125°	S
LM337	National Semiconductor (NSC)	LM337	2, 3	PFM, TO-220	0° to 125°	S
LM339	Fairchild Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Fairchild Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Intersil	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Intersil	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Motorola (MOT)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM339	Motorola (MOT)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	National Semiconductor (NSC)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM339	National Semiconductor (NSC)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	National Semiconductor (NSC)	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	National Semiconductor (NSC)	TLC339	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	Q
LM339	On Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	On Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Philips Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM339	Philips Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Philips Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	Signetics (Philips)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM339	Signetics (Philips)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	ST Microelectronics (STM)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM339	ST Microelectronics (STM)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339	ST Microelectronics (STM)	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	Fairchild Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	Intersil	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	National Semiconductor (NSC)	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	On Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	Philips Semiconductor	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM339A	ST Microelectronics (STM)	LM339A	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
LM3403	National Semiconductor (NSC)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LM348	Fairchild Semiconductor	LM348	14	PDIP, SOIC, SOP	0° to 70°	S
LM348	National Semiconductor (NSC)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
LM353	Fairchild Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LM353	Fairchild Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LM358	Fairchild Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	Fairchild Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358	Intersil	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	Intersil	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358	Motorola (MOT)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM358	Motorola (MOT)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	National Semiconductor (NSC)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM358	National Semiconductor (NSC)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	National Semiconductor (NSC)	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358	National Semiconductor (NSC)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM358	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LM358	National Semiconductor (NSC)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LM358	On Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	On Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358	Philips Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM358	Philips Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	Philips Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358	Signetics (Philips)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM358	Signetics (Philips)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	ST Microelectronics (STM)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM358	ST Microelectronics (STM)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM358	ST Microelectronics (STM)	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358A	Fairchild Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358A	Intersil	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358A	National Semiconductor (NSC)	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358A	Philips Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM358A	ST Microelectronics (STM)	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
LM385	On Semiconductor	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	S
LM385-1.2	Linear Technology Corp (LTC)	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	S
LM385-1.2	Linear Technology Corp (LTC)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM385-1.2	Motorola (MOT)	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	S
LM385-1.2	Motorola (MOT)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM385-1.2	National Semiconductor (NSC)	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	S
LM385-2.5	Linear Technology Corp (LTC)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	Q
LM385-2.5	Linear Technology Corp (LTC)	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM385-2.5	Motorola (MOT)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385-2.5	Motorola (MOT)	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM385-2.5	National Semiconductor (NSC)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385A-1.2	National Semiconductor (NSC)	LM385B-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385A-2.5	National Semiconductor (NSC)	LM385B-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385B	On Semiconductor	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385B-1.2	National Semiconductor (NSC)	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	S
LM385B-1.2	National Semiconductor (NSC)	LM385B-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385B-2.5	National Semiconductor (NSC)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM385B-2.5	National Semiconductor (NSC)	LM385B-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	S
LM393	Fairchild Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	Fairchild Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	Motorola (MOT)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM393	Motorola (MOT)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	National Semiconductor (NSC)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LM393	National Semiconductor (NSC)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	National Semiconductor (NSC)	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	National Semiconductor (NSC)	TLC393	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LM393	On Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	On Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	Philips Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM393	Philips Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	Philips Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	Signetics (Philips)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM393	Signetics (Philips)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	ST Microelectronics (STM)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM393	ST Microelectronics (STM)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393	ST Microelectronics (STM)	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	Fairchild Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	Fairchild Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	National Semiconductor (NSC)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
LM393A	National Semiconductor (NSC)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	National Semiconductor (NSC)	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM393A	On Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	On Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	Philips Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM393A	Philips Semiconductor	LM393A	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM3940	National Semiconductor (NSC)	TLV2217-33	2, 3, 20	PFM, TO-220, TSSOP	0° to 70°	Q
LM4040	Micrel	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4040	Micrel	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4040	National Semiconductor (NSC)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4041	Micrel	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4041	Micrel	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4041	National Semiconductor (NSC)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4041	National Semiconductor (NSC)	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LM4250	National Semiconductor (NSC)	TLC251	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LM431	National Semiconductor (NSC)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
LM431A	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431A	National Semiconductor (NSC)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431B	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431B	National Semiconductor (NSC)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431C	Fairchild Semiconductor	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
LM431C	Fairchild Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431C	National Semiconductor (NSC)	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431SA	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431SB	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM431SC	Fairchild Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
LM555	Fairchild Semiconductor	NE555	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
LM556	Fairchild Semiconductor	NE556	14	PDIP, SOIC, SOP, SSOP	0° to 70°	S
LM709	National Semiconductor (NSC)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
LM741	Fairchild Semiconductor	UA741	8	PDIP, SOIC, SOP	0° to 70°	S
LM741	National Semiconductor (NSC)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
LM75A	Philips Semiconductor	TMP75A	8	SOIC	-40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

LM7805—LMC6494A

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LM7805	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
LM7805E	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
LM78L05A	Fairchild Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
LM78L12A	Fairchild Semiconductor	UA78L12A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
LM78M05	Fairchild Semiconductor	UA78M05	2, 3, 4	SOT-223, TO-220, PFM	0° to 125°, -40° to 125°	S
LM7905	Fairchild Semiconductor	UA7905	3	TO-220	0° to 125°	S
LM79L05A	Fairchild Semiconductor	MC79L05A	3, 8	SOIC, TO-92	0° to 125°	S
LM79M05	Fairchild Semiconductor	UA79M05	2, 3	PFM, TO-220	0° to 125°	S
LM833	National Semiconductor (NSC)	RC4580	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
LM833	National Semiconductor (NSC)	TLV2362	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LM833	On Semiconductor	RC4580	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
LM833	ST Microelectronics (STM)	RC4580	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
LMC6001	National Semiconductor (NSC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC6022	National Semiconductor (NSC)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6022	National Semiconductor (NSC)	TLC27L2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6022	National Semiconductor (NSC)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6024	National Semiconductor (NSC)	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	S
LMC6024	National Semiconductor (NSC)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6024	National Semiconductor (NSC)	TLC27L4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	Q
LMC6024	National Semiconductor (NSC)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6032	National Semiconductor (NSC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6032	National Semiconductor (NSC)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6032	National Semiconductor (NSC)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LMC6032	National Semiconductor (NSC)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6034	National Semiconductor (NSC)	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	S
LMC6034	National Semiconductor (NSC)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6034	National Semiconductor (NSC)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
LMC6034	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC6034	National Semiconductor (NSC)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6042	National Semiconductor (NSC)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6042	National Semiconductor (NSC)	TLC27L2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6044	National Semiconductor (NSC)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6044	National Semiconductor (NSC)	TLC27L4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	Q
LMC6061	National Semiconductor (NSC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC6062	National Semiconductor (NSC)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6064	National Semiconductor (NSC)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6081	National Semiconductor (NSC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC6082	National Semiconductor (NSC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6082	National Semiconductor (NSC)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6082	National Semiconductor (NSC)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6084	National Semiconductor (NSC)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6084	National Semiconductor (NSC)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
LMC6084	National Semiconductor (NSC)	TLV2434	14	SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6084	National Semiconductor (NSC)	TLV2444	14	SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6144	National Semiconductor (NSC)	TLV2784	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6462	National Semiconductor (NSC)	TLV2322	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
LMC6462	National Semiconductor (NSC)	TLV2454	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6464A	National Semiconductor (NSC)	TLV2324	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
LMC6482	National Semiconductor (NSC)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6482	National Semiconductor (NSC)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LMC6484	National Semiconductor (NSC)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
LMC6492A	National Semiconductor (NSC)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC6494	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC6494A	National Semiconductor (NSC)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LMC6572	National Semiconductor (NSC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6572	National Semiconductor (NSC)	TLV2262	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LMC6572A	National Semiconductor (NSC)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC6574	National Semiconductor (NSC)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LMC6574	National Semiconductor (NSC)	TLV2264	14	PDIP, SOIC, TSSOP	-40° to 125°	Q
LMC6574	National Semiconductor (NSC)	TLV2324	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
LMC6582A	National Semiconductor (NSC)	TLV2262	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LMC6584A	National Semiconductor (NSC)	TLV2264	14	PDIP, SOIC, TSSOP	-40° to 125°	Q
LMC660	National Semiconductor (NSC)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC660	National Semiconductor (NSC)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
LMC660	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LMC660	National Semiconductor (NSC)	TLV2434	14	SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC660	National Semiconductor (NSC)	TLV2444	14	SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC662	National Semiconductor (NSC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LMC662	National Semiconductor (NSC)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LMC662	National Semiconductor (NSC)	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
LMC662	National Semiconductor (NSC)	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LMC7101	National Semiconductor (NSC)	TLV2341	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
LMV321	National Semiconductor (NSC)	LMV321	5	SC-70, SOT-23	-40° to 85°	S
LMV321A	Fairchild Semiconductor	LMV321	5	SC-70, SOT-23	-40° to 85°	S
LMV324	Fairchild Semiconductor	LMV324	14	SOIC, TSSOP	-40° to 85°, -40° to 125°	Q
LMV324	National Semiconductor (NSC)	LMV324	14	SOIC, TSSOP	-40° to 85°, -40° to 125°	S
LMV324	National Semiconductor (NSC)	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	S
LMV331	National Semiconductor (NSC)	LMV331	5	SC-70, SOT-23	-40° to 85°	S
LMV339	National Semiconductor (NSC)	LMV339	14	SOIC, TSSOP	-40° to 85°	S
LMV358	Fairchild Semiconductor	LMV358	8	MSOP, SOIC, TSSOP, VSSOP	-40° to 85°, -40° to 125°	Q
LMV358	National Semiconductor (NSC)	LMV358	8	MSOP, SOIC, TSSOP, VSSOP	-40° to 85°, -40° to 125°	S
LMV393	National Semiconductor (NSC)	LMV393	8	MSOP, SOIC, TSSOP, VSSOP	-40° to 85°	S
LMV431	National Semiconductor (NSC)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
LMV431	National Semiconductor (NSC)	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
LMV431	National Semiconductor (NSC)	TLV431B*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°, -40° to 125°	S
LMV431A	National Semiconductor (NSC)	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
LMV431B	National Semiconductor (NSC)	TLV431B*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°, -40° to 125°	S
LMV821	National Semiconductor (NSC)	LMV821*	5	SC-70, SOT-23	-40° to 85°, -40° to 125°	S
LMV822	National Semiconductor (NSC)	LMV822*	8	MSOP, SOIC	-40° to 85°, -40° to 125°	S
LMV824	National Semiconductor (NSC)	LMV824*	14	SOIC, TSSOP, TVSOP	-40° to 85°, -40° to 125°	S
LMV824	National Semiconductor (NSC)	OPA4343	14, 16	QSOP/SSOP, SOIC, TSSOP	-40° to 85°C	S
LMV931	National Semiconductor (NSC)	LMV931*	5	SC-70, SOT-23	-40° to 125°	S
LMV934	National Semiconductor (NSC)	LMV934	14	SOIC, TSSOP	-40° to 125°	S
LMV981	National Semiconductor (NSC)	LMV981*	6	SC-70, SOT-23	-40° to 125°	S
LMX321	Maxim	LMV321	5	SC-70, SOT-23	-40° to 85°	Q
LMX324	Maxim	LMV324	14	SOIC, TSSOP	-40° to 85°, -40° to 125°	Q
LMX331	Maxim	LMV331	5	SC-70, SOT-23	-40° to 85°	Q
LMX339	Maxim	LMV339	14	SOIC, TSSOP	-40° to 85°	Q
LMX358	Maxim	LMV358	8	MSOP, SOIC, TSSOP, VSSOP	-40° to 85°, -40° to 125°	Q
LMX393	Maxim	LMV393	8	MSOP, SOIC, TSSOP, VSSOP	-40° to 85°	Q
LP2981-2.5	National Semiconductor (NSC)	LP2981-25	5	SOT-23	Planned	S
LP2981-2.7	National Semiconductor (NSC)	LP2981-27	5	SOT-23	Planned	S
LP2981-2.8	National Semiconductor (NSC)	LP2981-28*	5	SOT-23	-40° to 125°	S
LP2981-2.9	National Semiconductor (NSC)	LP2981-29	5	SOT-23	Planned	S
LP2981-3.0	National Semiconductor (NSC)	LP2981-30*	5	SOT-23	-40° to 125°	S
LP2981-3.2	National Semiconductor (NSC)	LP2981-32	5	SOT-23	Planned	S
LP2981-3.3	National Semiconductor (NSC)	LP2981-33*	5	SOT-23	-40° to 125°	S
LP2981-3.6	National Semiconductor (NSC)	LP2981-36	5	SOT-23	Planned	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

LP2981-5.0—LPC660

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LP2981-5.0	National Semiconductor (NSC)	LP2981-50	5	SOT-23	Planned	S
LP2981A-2.5	National Semiconductor (NSC)	LP2981A-25	5	SOT-23	Planned	S
LP2981A-2.7	National Semiconductor (NSC)	LP2981A-27	5	SOT-23	Planned	S
LP2981A-2.8	National Semiconductor (NSC)	LP2981A-28*	5	SOT-23	-40° to 125°	S
LP2981A-2.9	National Semiconductor (NSC)	LP2981A-29	5	SOT-23	Planned	S
LP2981A-3.0	National Semiconductor (NSC)	LP2981A-30*	5	SOT-23	-40° to 125°	S
LP2981A-3.2	National Semiconductor (NSC)	LP2981A-32	5	SOT-23	Planned	S
LP2981A-3.3	National Semiconductor (NSC)	LP2981A-33*	5	SOT-23	-40° to 125°	S
LP2981A-3.6	National Semiconductor (NSC)	LP2981A-36	5	SOT-23	Planned	S
LP2981A-5.0	National Semiconductor (NSC)	LP2981A-50	5	SOT-23	Planned	S
LP2985-1.35	National Semiconductor (NSC)	LP2985-135	5	SOT-23	Planned	S
LP2985-1.5	National Semiconductor (NSC)	LP2985-15	5	SOT-23	Planned	S
LP2985-1.7	National Semiconductor (NSC)	LP2985-17	5	SOT-23	Planned	S
LP2985-1.8	National Semiconductor (NSC)	LP2985-18*	5	SOT-23	-40° to 125°	S
LP2985-15	Philips Semiconductor	LP2985-15	5	SOT-23	Planned	S
LP2985-18	Philips Semiconductor	LP2985-18*	5	SOT-23	-40° to 125°	S
LP2985-2.0	National Semiconductor (NSC)	LP2985-20	5	SOT-23	Planned	S
LP2985-2.5	National Semiconductor (NSC)	LP2985-25	5	SOT-23	Planned	S
LP2985-2.6	National Semiconductor (NSC)	LP2985-26	5	SOT-23	Planned	S
LP2985-2.7	National Semiconductor (NSC)	LP2985-27	5	SOT-23	Planned	S
LP2985-2.8	National Semiconductor (NSC)	LP2985-28*	5	SOT-23	-40° to 125°	S
LP2985-25	Philips Semiconductor	LP2985-25	5	SOT-23	Planned	S
LP2985-28	Philips Semiconductor	LP2985-28*	5	SOT-23	-40° to 125°	S
LP2985-3.0	National Semiconductor (NSC)	LP2985-30	5	SOT-23	Planned	S
LP2985-3.1	National Semiconductor (NSC)	LP2985-31	5	SOT-23	Planned	S
LP2985-3.2	National Semiconductor (NSC)	LP2985-32	5	SOT-23	Planned	S
LP2985-3.3	National Semiconductor (NSC)	LP2985-33*	5	SOT-23	-40° to 125°	S
LP2985-30	Philips Semiconductor	LP2985-30	5	SOT-23	Planned	S
LP2985-33	Philips Semiconductor	LP2985-33*	5	SOT-23	-40° to 125°	S
LP2985-36	Philips Semiconductor	LP2985-36	5	SOT-23	Planned	S
LP2985-5.0	National Semiconductor (NSC)	LP2985-50	5	SOT-23	Planned	S
LP2985-50	Philips Semiconductor	LP2985-50	5	SOT-23	Planned	S
LP2985A-1.35	National Semiconductor (NSC)	LP2985A-135	5	SOT-23	Planned	S
LP2985A-1.5	National Semiconductor (NSC)	LP2985A-15	5	SOT-23	Planned	S
LP2985A-1.7	National Semiconductor (NSC)	LP2985A-17	5	SOT-23	Planned	S
LP2985A-1.8	National Semiconductor (NSC)	LP2985A-18*	5	SOT-23	-40° to 125°	S
LP2985A-2.0	National Semiconductor (NSC)	LP2985A-20	5	SOT-23	Planned	S
LP2985A-2.5	National Semiconductor (NSC)	LP2985A-25	5	SOT-23	Planned	S
LP2985A-2.6	National Semiconductor (NSC)	LP2985A-26	5	SOT-23	Planned	S
LP2985A-2.7	National Semiconductor (NSC)	LP2985A-27	5	SOT-23	Planned	S
LP2985A-2.8	National Semiconductor (NSC)	LP2985A-28*	5	SOT-23	-40° to 125°	S
LP2985A-3.0	National Semiconductor (NSC)	LP2985A-30	5	SOT-23	Planned	S
LP2985A-3.1	National Semiconductor (NSC)	LP2985A-31	5	SOT-23	Planned	S
LP2985A-3.2	National Semiconductor (NSC)	LP2985A-32	5	SOT-23	Planned	S
LP2985A-3.3	National Semiconductor (NSC)	LP2985A-33*	5	SOT-23	-40° to 125°	S
LP2985A-5.0	National Semiconductor (NSC)	LP2985A-50	5	SOT-23	Planned	S
LP311	National Semiconductor (NSC)	LP311	8	PDIP, SOIC, SOP	0° to 70°	S
LP324	National Semiconductor (NSC)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LP324	National Semiconductor (NSC)	TLC27L4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	Q
LP339	National Semiconductor (NSC)	TLC339	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	Q
LPC660	National Semiconductor (NSC)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LPC660	National Semiconductor (NSC)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
LPC660	National Semiconductor (NSC)	TLC27L4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	Q
LPC660	National Semiconductor (NSC)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
LPC661	National Semiconductor (NSC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LPC662	National Semiconductor (NSC)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LPC662	National Semiconductor (NSC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LPC662	National Semiconductor (NSC)	TLC27L2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LPC662	National Semiconductor (NSC)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LPV321	National Semiconductor (NSC)	LPV321*	5	SC-70, SOT-23	-40° to 85°, -40° to 125°	S
LPV324	National Semiconductor (NSC)	LPV324*	14	SOIC, TSSOP	-40° to 85°, -40° to 125°	S
LPV358	National Semiconductor (NSC)	LPV358*	8	MSOP, SOIC, VSSOP	-40° to 85°, -40° to 125°	S
LS204	ST Microelectronics (STM)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
LS404	ST Microelectronics (STM)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
LT1004-1.2	Linear Technology Corp (LTC)	LM385-1.2	3, 8	SOIC, SOP, TO-92, TSSOP	0° to 70°	Q
LT1004-1.2	Linear Technology Corp (LTC)	LT1004-1.2	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	S
LT1004-2.5	Linear Technology Corp (LTC)	LM385-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°	Q
LT1004-2.5	Linear Technology Corp (LTC)	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	S
LT1006	Linear Technology Corp (LTC)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
LT1006	Linear Technology Corp (LTC)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
LT1009	Linear Technology Corp (LTC)	LT1009	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	S
LT1013	Linear Technology Corp (LTC)	LT1013	8	PDIP, SOIC	0° to 70°	S
LT1013D	Linear Technology Corp (LTC)	LT1013D	8	PDIP, SOIC	0° to 70°, -40° to 85°, -55° to 125°	S
LT1014	Linear Technology Corp (LTC)	LT1014	14	PDIP	0° to 70°	S
LT1014A	Linear Technology Corp (LTC)	LT1014A	14	CDIP, PDIP	-55° to 125°	S
LT1014D	Linear Technology Corp (LTC)	LT1014D	14, 16	PDIP, SOIC	0° to 70°, -40° to 105°, -55° to 125°	S
LT1016	Linear Technology Corp (LTC)	TL3016	8	SOIC, TSSOP	0° to 70°, -40° to 85°	S
LT1017	Linear Technology Corp (LTC)	TLC352	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
LT1017	Linear Technology Corp (LTC)	TLC3702	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LT1017	Linear Technology Corp (LTC)	TLC393	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LT1018	Linear Technology Corp (LTC)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LT1018	Linear Technology Corp (LTC)	TLC352	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
LT1018	Linear Technology Corp (LTC)	TLC3702	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
LT1019-2.5	Linear Technology Corp (LTC)	LT1009	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
LT1054	Linear Technology Corp (LTC)	LT1054	8, 16	PDIP, SOIC	0° to 70°, -40° to 85°	S
LT1079	Linear Technology Corp (LTC)	OPA4244	14	TSSOP	-40° to 85°	Q
LT1097	Linear Technology Corp (LTC)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
LT1112	Linear Technology Corp (LTC)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LT1116	Linear Technology Corp (LTC)	TL3116	8	SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 85°	S
LT1123	Linear Technology Corp (LTC)	TPS7250	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
LT1201	Linear Technology Corp (LTC)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
LT1243	Linear Technology Corp (LTC)	UC2843	8, 14	PDIP, SOIC	-40° to 85°	Q
LT1246	Linear Technology Corp (LTC)	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
LT1431	Linear Technology Corp (LTC)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
LT1431	Linear Technology Corp (LTC)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
LT1491	Linear Technology Corp (LTC)	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LT1496	Linear Technology Corp (LTC)	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
LT311	Linear Technology Corp (LTC)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
LX5111	Microsemi Corporation (Linfinit)	UCC5606	16, 24	PDIP, SOIC, TSSOP	0° to 70°	S
M51923	Mitsubishi Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
M51924	Mitsubishi Electronics	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	Q
M5218	Mitsubishi Electronics	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
M5221	Mitsubishi Electronics	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
M5221	Mitsubishi Electronics	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
M5223	Mitsubishi Electronics	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
M5224	Mitsubishi Electronics	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
M5233	Mitsubishi Electronics	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

M5233—MAX3243E

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
M5233	Mitsubishi Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
M5234	Mitsubishi Electronics	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
M5234	Mitsubishi Electronics	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
M54523	Mitsubishi Electronics	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
MAX1016	Maxim	TL3016	8	SOIC, TSSOP	0° to 70°, -40° to 85°	S
MAX1044	Maxim	LT1054	8, 16	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX1116	Maxim	TL3116	8	SOIC, TSSOP	0° to 70°, -40° to 85°	S
MAX1483	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX1483	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX1487	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX1487E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX1488E	Maxim	SN75C188	14	PDIP, SOIC, SOP, SSOP	0° to 70°	Q
MAX202	Maxim	MAX202	16	SOIC, TSSOP	0° to 70°, -40° to 85°	S
MAX202E	Maxim	MAX202E	16	SOIC, TSSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX207	Maxim	MAX207	24	SOIC, SSOP	0° to 70°, -40° to 85°	S
MAX207E	Maxim	MAX207	24	SOIC, SSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX208	Maxim	MAX208	24	PDIP, SOIC, SSOP	0° to 70°, -40° to 85°	S
MAX208E	Maxim	MAX208	24	PDIP, SOIC, SSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX211	Maxim	MAX211	28	SOIC, SSOP	0° to 70°, -40° to 85°	S
MAX211E	Maxim	MAX211	28	SOIC, SSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX222	Maxim	MAX222	18	PDIP, SOIC	0° to 70°, -40° to 85°	S
MAX232	Maxim	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
MAX232E	Maxim	MAX232E	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°, E grade planned	S
MAX241	Maxim	SN75LBC241	28	SOIC	0° to 70°	Q
MAX241E	Maxim	SN75LBC241	28	SOIC	0° to 70°	Q
MAX3041	Maxim	AM26LS31	16	PDIP, SOIC, SOP, SSOP	0° to 70°	Q
MAX3082E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX3082E	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX3085E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX3085E	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX3088E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX3088E	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX3093E	Maxim	AM26LS32A	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MAX3093E	Maxim	SN65LBC175A	16	PDIP, TSSOP	-40° to 85°	Q
MAX3093E	Maxim	SN75LBC175A	16	PDIP, TSSOP	0° to 70°	Q
MAX3095	Maxim	SN65LBC173A	16	PDIP	-40° to 85°	Q
MAX3095	Maxim	SN75LBC173A	16	PDIP	0° to 70°	Q
MAX3185	Maxim	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
MAX3185	Maxim	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
MAX3221	Maxim	MAX3221*	16	SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3222	Maxim	MAX3222	20	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3222E	Maxim	MAX3222E	20	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX3223	Maxim	MAX3223	20	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3223E	Maxim	MAX3223E	20	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX3225	Maxim	SN65C3223	20	PDIP, SSOP	-40° to 85°	Q
MAX3225	Maxim	SN75C3223	20	PDIP, SSOP	0° to 70°	Q
MAX3225E	Maxim	SN65C3223	20	PDIP, SSOP	-40° to 85°	Q
MAX3225E	Maxim	SN75C3223	20	PDIP, SSOP	0° to 70°	Q
MAX3232	Maxim	MAX3232	16	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3232E	Maxim	MAX3232	16	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX3238	Maxim	MAX3238	28	SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3238E	Maxim	MAX3238E	28	SSOP, TSSOP	0° to 70°, -40° to 85°, E grade planned	S
MAX3243	Maxim	MAX3243*	28	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
MAX3243E	Maxim	MAX3243E	28	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°, E grade planned	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer



Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MAX3471	Maxim	SN65HVD08	8	PDIP, SOIC	-40° to 85°	Q
MAX3471	Maxim	SN75HVD08	8	PDIP, SOIC	0° to 70°	Q
MAX3483	Maxim	SN65HVD12	8	PDIP, SOIC	-40° to 85°	Q
MAX3483	Maxim	SN75HVD12	8	PDIP, SOIC	0° to 70°	Q
MAX3483E	Maxim	SN65HVD12	8	PDIP, SOIC	-40° to 85°	Q
MAX3483E	Maxim	SN75HVD12	8	PDIP, SOIC	0° to 70°	Q
MAX3485	Maxim	SN65HVD11	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX3485	Maxim	SN75HVD11	8	PDIP, SOIC	0° to 70°	Q
MAX3485E	Maxim	SN65HVD11	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX3485E	Maxim	SN75HVD11	8	PDIP, SOIC	0° to 70°	Q
MAX3486	Maxim	SN65HVD11	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX3486	Maxim	SN75HVD11	8	PDIP, SOIC	0° to 70°	Q
MAX3486E	Maxim	SN65HVD11	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX3486E	Maxim	SN75HVD11	8	PDIP, SOIC	0° to 70°	Q
MAX3487	Maxim	SN65HVD11	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX358	Maxim	MPC508	16	PDIP, SOIC	-40° to 85°	S
MAX359	Maxim	MPC509	16	PDIP, SOIC	-40° to 85°	S
MAX400	Maxim	OPA277	8	PDIP, SOIC	-40° to 85°	S
MAX4012	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4014	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4016	Maxim	THS4211	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX402	Maxim	TL031	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX4044	Maxim	OPA4344	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
MAX4051	Maxim	CD74HC4051	16	PDIP, SOIC	-55° to 125°	Q
MAX4051A	Maxim	CD74HC4051	16	PDIP, SOIC	-55° to 125°	Q
MAX4052	Maxim	CD74HC4052	16	PDIP, SOIC	-55° to 125°	Q
MAX4052A	Maxim	CD74HC4052	16	PDIP, SOIC	-55° to 125°	Q
MAX4053	Maxim	CD74HC4053	16	PDIP, SOIC	-55° to 125°	Q
MAX4053A	Maxim	CD74HC4053	16	PDIP, SOIC	-55° to 125°	Q
MAX4066	Maxim	CD74HC4066	14	PDIP, SOIC	-55° to 125°	Q
MAX4066A	Maxim	CD74HC4066	14	PDIP, SOIC	-55° to 125°	Q
MAX407	Maxim	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
MAX408	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX408A	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4100	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4101	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4102	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4103	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4104	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4105	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4106	Maxim	THS4271	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4107	Maxim	THS4271	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4108	Maxim	OPA820	5, 8	SOIC, SOT-23	-40° to 85°	S
MAX4108	Maxim	THS4271	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4109	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4112	Maxim	THS4271	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4112	Maxim	THS4275	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4113	Maxim	THS4271	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4117	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4118	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4162	Maxim	OPA4343	14, 16	QSOP/SSOP, SOIC, TSSOP	-40° to 85°C	Q
MAX4164	Maxim	OPA4344	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
MAX4165	Maxim	OPA340	5, 8	PDIP, SOIC, SOT-23	-40° to 85°	S
MAX418	Maxim	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

**\*Must-Have Product**

# Standard Linear Products Cross-Reference by Device

MAX4180—MAX4434

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MAX4180	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4181	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4182	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4183	Maxim	THS4226	10	MSOP-PowerPAD	-40° to 85°	Q
MAX4184	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX419	Maxim	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
MAX4190	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4212	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4213	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4216	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4216	Maxim	THS4226	10	MSOP-PowerPAD	-40° to 85°	Q
MAX4225	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4227	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4228	Maxim	THS3202	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4244	Maxim	TLV2764	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
MAX4250	Maxim	OPA340	5, 8	PDIP, SOIC, SOT-23	-40° to 85°	S
MAX4252	Maxim	OPA2340	8	PDIP, MSOP, SOIC	-40° to 85°	S
MAX4254	Maxim	OPA4340	14, 16	QSOP/SSOP, SOIC	-40° to 85°	S
MAX4257	Maxim	OPA2350	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX4265	Maxim	THS4275	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4266	Maxim	THS4275	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4267	Maxim	THS4275	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX428	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX428	Maxim	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	Q
MAX428A	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4304	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4305	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4308	Maxim	THS4211	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4309	Maxim	THS4211	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX4322	Maxim	OPA343	5, 8	SOIC, SOT-23	-40° to 85°	S
MAX4326	Maxim	OPA2343	8	MSOP, SOIC	-40° to 85°	S
MAX4329	Maxim	OPA4343	14, 16	QSOP/SSOP, SOIC, TSSOP	-40° to 85°C	S
MAX4334	Maxim	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
MAX4334	Maxim	OPA4343	14, 16	QSOP/SSOP, SOIC, TSSOP	-40° to 85°C	Q
MAX4351	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4381	Maxim	THS4225	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4390	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4392	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4412	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4414	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4415	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4416	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4417	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4426	Maxim	UCC27323	8	CDIP, MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX4426	Maxim	UCC37323	8	CDIP, MSOP-PowerPAD, SOIC	0° to 70°	S
MAX4427	Maxim	UCC27324	8	CDIP, MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX4427	Maxim	UCC37324	8	CDIP, MSOP-PowerPAD, SOIC	0° to 70°	S
MAX4428	Maxim	UCC27325	8	CDIP, MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX4428	Maxim	UCC37325	8	CDIP, MSOP-PowerPAD, SOIC	0° to 70°	S
MAX4430	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4431	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4432	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4433	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4434	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MAX4435	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4436	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4437	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4450	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4451	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4452	Maxim	THS4221	5, 8	MSOP, MSOP-PowerPAD, SOIC, SOT-23	-40° to 85°	Q
MAX4453	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX457	Maxim	THS4222	8	MSOP, MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX4594	Maxim	MAX4594	5	SC-70	-40° to 85°	S
MAX4595	Maxim	MAX4595	5	SC-70	-40° to 85°	S
MAX4596	Maxim	MAX4596	5	SC-70	-40° to 85°	S
MAX4597	Maxim	MAX4597	5	SC-70	-40° to 85°	S
MAX474	Maxim	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\text{r}}40^{\circ}$ to 105°	Q
MAX475	Maxim	OPA4343	14, 16	QSOP/SSOP, SOIC, TSSOP	-40° to 85°C	Q
MAX477	Maxim	THS4211	8	MSOP, MSOP-PowerPAD, SOIC, SON	-40° to 85°	Q
MAX478	Maxim	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
MAX479	Maxim	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
MAX479	Maxim	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
MAX481	Maxim	SN65LBC176A	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX481	Maxim	SN75LBC176A	8	PDIP, SOIC	0° to 70°	Q
MAX481E	Maxim	SN65LBC176A	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX481E	Maxim	SN75LBC176A	8	PDIP, SOIC	0° to 70°	Q
MAX483	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX483	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX483E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX483E	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX485	Maxim	SN65ALS1176	8	PDIP, SOIC	-25° to 85°	Q
MAX485	Maxim	SN65LBC176A	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX485	Maxim	SN75LBC176A	8	PDIP, SOIC	0° to 70°	Q
MAX485E	Maxim	SN65LBC176A	8	PDIP, SOIC	0° to 70°, -40° to 85°	Q
MAX485E	Maxim	SN75LBC176A	8	PDIP, SOIC	0° to 70°	Q
MAX487	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX487	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX487E	Maxim	SN65HVD3082E	8	PDIP, MSOP, SOIC	-40° to 85°	Q
MAX487E	Maxim	SN75HVD3082E	8	PDIP, SOIC	0° to 70°	Q
MAX488	Maxim	SN65LBC179	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX488	Maxim	SN75LBC179	8	PDIP, SOIC	0° to 70°	Q
MAX488E	Maxim	SN65LBC179A	8	PDIP, SOIC	-40° to 85°	Q
MAX488E	Maxim	SN75LBC179A	8	PDIP, SOIC	0° to 70°	Q
MAX489	Maxim	SN65LBC180	14, 16	PDIP, QFN, SOIC	-40° to 85°	Q
MAX489	Maxim	SN75LBC180	14, 16	PDIP, QFN, SOIC	0° to 70°	Q
MAX489E	Maxim	SN65LBC180A	14	PDIP, SOIC	-40° to 85°	Q
MAX489E	Maxim	SN75LBC180A	14	PDIP, SOIC	0° to 70°	Q
MAX490	Maxim	SN65LBC179	8	PDIP, SOIC	-40° to 85°, -40° to 125°	Q
MAX490	Maxim	SN75LBC179	8	PDIP, SOIC	0° to 70°	Q
MAX490E	Maxim	SN65LBC179A	8	PDIP, SOIC	-40° to 85°	Q
MAX490E	Maxim	SN75LBC179A	8	PDIP, SOIC	0° to 70°	Q
MAX491	Maxim	SN65LBC180	14, 16	PDIP, QFN, SOIC	-40° to 85°	Q
MAX491	Maxim	SN75LBC180	14, 16	PDIP, QFN, SOIC	0° to 70°	Q
MAX491E	Maxim	SN65LBC180A	14	PDIP, SOIC	-40° to 85°	Q
MAX491E	Maxim	SN75LBC180A	14	PDIP, SOIC	0° to 70°	Q
MAX492	Maxim	OPA2344	8	PDIP, MSOP, SOIC	-40° to 85°	S
MAX494	Maxim	OPA4344	14	PDIP, SOIC, TSSOP	-40° to 85°	S
MAX494	Maxim	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

**\*Must-Have Product**

# Standard Linear Products Cross-Reference by Device

# MAX494—MAX824M

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MAX494	Maxim	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MAX495	Maxim	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
MAX495	Maxim	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MAX6101	Maxim	REF3012A	3	SOT-23	Planned	S
MAX6316	Maxim	TPS3823-30	5	SOT-23	-40° to 85°	S
MAX6316	Maxim	TPS3823-33	5	SOT-23	-40° to 85°	S
MAX6316	Maxim	TPS3823-50	5	SOT-23	-40° to 85°	S
MAX6318	Maxim	TPS3824-30	5	SOT-23	-40° to 85°	S
MAX6318	Maxim	TPS3824-33	5	SOT-23	-40° to 85°	S
MAX6318	Maxim	TPS3824-50	5	SOT-23	-40° to 85°	S
MAX6319	Maxim	TPS3125L30	5	SOT-23	-40° to 85°	S
MAX6319	Maxim	TPS3825-33	5	SOT-23	-40° to 85°	S
MAX6319	Maxim	TPS3825-50	5	SOT-23	-40° to 85°	S
MAX6326	Maxim	TPS3809L50	3	SOT-23	-40° to 85°	S
MAX6326	Maxim	TPS3809J25	3	SOT-23	-40° to 85°	S
MAX6326	Maxim	TPS3809K33	3	SOT-23	-40° to 85°	S
MAX6326	Maxim	TPS3809L30	3	SOT-23	-40° to 85°	S
MAX6346	Maxim	TPS3809L50	3	SOT-23	-40° to 85°	S
MAX6346	Maxim	TPS3809J25	3	SOT-23	-40° to 85°	S
MAX6346	Maxim	TPS3809K33	3	SOT-23	-40° to 85°	S
MAX6346	Maxim	TPS3809L30	3	SOT-23	-40° to 85°	S
MAX705	Maxim	TPS3705-50	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX706	Maxim	TPS3705-50	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX706R	Maxim	TPS3705-30	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX706S	Maxim	TPS3705-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX706T	Maxim	TPS3705-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX707	Maxim	TPS3707-50	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX708	Maxim	TPS3707-50	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX708R	Maxim	TPS3707-30	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX708R	Philips Semiconductor	TPS3707-30	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX708S	Maxim	TPS3707-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX708S	Philips Semiconductor	TPS3707-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX708T	Maxim	TPS3707-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	Q
MAX708T	Philips Semiconductor	TPS3707-33	8	MSOP-PowerPAD, SOIC	-40° to 85°	S
MAX735	Maxim	TPS6735	8	PDIP, SOIC	-40° to 85°	S
MAX809L	Maxim	TPS3809L50	3	SOT-23	-40° to 85°	Q
MAX809L	Philips Semiconductor	TPS3809L50	3	SOT-23	-40° to 85°	Q
MAX809M	Maxim	TPS3809L50	3	SOT-23	-40° to 85°	Q
MAX809M	Philips Semiconductor	TPS3809L50	3	SOT-23	-40° to 85°	Q
MAX809R	Maxim	TPS3809L30	3	SOT-23	-40° to 85°	S
MAX809R	Philips Semiconductor	TPS3809L30	3	SOT-23	-40° to 85°	S
MAX809S	Maxim	TPS3809K33	3	SOT-23	-40° to 85°	S
MAX809T	Maxim	TPS3809K33	3	SOT-23	-40° to 85°	Q
MAX817L	Maxim	TPS3617-50	8	MSOP	-40° to 85°	Q
MAX817M	Maxim	TPS3617-50	8	MSOP	-40° to 85°	Q
MAX819L	Maxim	TPS3619-50	8	MSOP	-40° to 85°	Q
MAX819M	Maxim	TPS3619-50	8	MSOP	-40° to 85°	Q
MAX823L	Maxim	TPS3823-50	5	SOT-23	-40° to 85°	Q
MAX823M	Maxim	TPS3823-50	5	SOT-23	-40° to 85°	Q
MAX823R	Maxim	TPS3823-30	5	SOT-23	-40° to 85°	S
MAX823S	Maxim	TPS3823-33	5	SOT-23	-40° to 85°	S
MAX823T	Maxim	TPS3823-33	5	SOT-23	-40° to 85°	Q
MAX824L	Maxim	TPS3824-50	5	SOT-23	-40° to 85°	Q
MAX824M	Maxim	TPS3824-50	5	SOT-23	-40° to 85°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

**\*Must-Have Product**

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MAX824R	Maxim	TPS3824-30	5	SOT-23	-40° to 85°	S
MAX824S	Maxim	TPS3824-33	5	SOT-23	-40° to 85°	S
MAX824T	Maxim	TPS3824-33	5	SOT-23	-40° to 85°	Q
MAX825L	Maxim	TPS3825-50	5	SOT-23	-40° to 85°	Q
MAX825M	Maxim	TPS3825-50	5	SOT-23	-40° to 85°	Q
MAX825R	Maxim	TPS3825-33	5	SOT-23	-40° to 85°	Q
MAX825S	Maxim	TPS3825-33	5	SOT-23	-40° to 85°	S
MAX825T	Maxim	TPS3825-33	5	SOT-23	-40° to 85°	Q
MAX9122	Maxim	SN65LVDT348	16	SOIC, TSSOP	-40° to 85°	Q
MAX9123	Maxim	SN65LVDS047	16	SOIC, TSSOP	-40° to 85°	Q
MAX9124	Maxim	SN65LVDS32	16	SOIC, TSSOP	-40° to 85°	Q
MAX9126	Maxim	SN65LVDT32B	16	SOIC, TSSOP	-40° to 85°	Q
MB3614	Fujitsu Semiconductor	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MB3614	Fujitsu Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MB3759	Fujitsu Semiconductor	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
MB3759	Fujitsu Semiconductor	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MB4204	Fujitsu Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MB4204	Fujitsu Semiconductor	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
MB47082	Fujitsu Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MB47082	Fujitsu Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
MB47358	Fujitsu Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MB47358	Fujitsu Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MB47393	Fujitsu Semiconductor	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MB47393	Fujitsu Semiconductor	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC1413	Fairchild Semiconductor	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
MC1413	On Semiconductor	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
MC145403	On Semiconductor	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
MC145403	On Semiconductor	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
MC1456	Motorola (MOT)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC1741	Motorola (MOT)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
MC1741	On Semiconductor	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
MC1776	Motorola (MOT)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
MC26C31	Motorola (MOT)	AM26C31	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
MC26C32	Motorola (MOT)	AM26C32	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
MC3302	Motorola (MOT)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MC3302	On Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MC3302	Philips Semiconductor	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MC3302	Philips Semiconductor	LM3302	14	PDIP, SOIC	-40° to 85°	S
MC33023	Motorola (MOT)	UC2823	16, 20	PDIP, PLCC, SOIC	-40° to 85°	Q
MC33025	Motorola (MOT)	UC2825	16, 20	CDIP, PDIP, PLCC, SOIC	-40° to 85°	Q
MC3303	Motorola (MOT)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC3303	On Semiconductor	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	S
MC3303	ST Microelectronics (STM)	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	S
MC33063A	Fairchild Semiconductor	MC33063A	8	PDIP, SOIC	-40° to 85°	S
MC33063A	On Semiconductor	MC33063A	8	PDIP, SOIC	-40° to 85°	S
MC33074	On Semiconductor	TL3474	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	S
MC33074A	On Semiconductor	TL3474A	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	S
MC33076	Motorola (MOT)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{V}$ 40° to 105°	Q
MC33076	On Semiconductor	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{V}$ 40° to 105°	Q
MC33078	On Semiconductor	MC33078	8	PDIP, MSOP, SOIC	-40° to 85°	S
MC33171	Motorola (MOT)	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC33171	Motorola (MOT)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33171	Motorola (MOT)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
MC33171	On Semiconductor	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

MC33171—MC43025

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MC33171	On Semiconductor	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
MC33171	ST Microelectronics (STM)	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC33172	Motorola (MOT)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33172	Motorola (MOT)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC33172	Motorola (MOT)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33172	On Semiconductor	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33172	On Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC33172	On Semiconductor	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33172	ST Microelectronics (STM)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33174	Motorola (MOT)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC33174	Motorola (MOT)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33174	Motorola (MOT)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33174	On Semiconductor	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC33174	On Semiconductor	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33174	On Semiconductor	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33174	ST Microelectronics (STM)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC33178	Motorola (MOT)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\text{r}}40^\circ$ to 105°	Q
MC33178	On Semiconductor	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\text{r}}40^\circ$ to 105°	Q
MC33181	On Semiconductor	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC33182	Motorola (MOT)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33182	On Semiconductor	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33182	On Semiconductor	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33184	Motorola (MOT)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33184	On Semiconductor	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC33184	On Semiconductor	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC33201	Motorola (MOT)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33202	Motorola (MOT)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
MC33202	Motorola (MOT)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC33202	On Semiconductor	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
MC33202	On Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC33204	Motorola (MOT)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
MC33204	Motorola (MOT)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33204	On Semiconductor	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
MC33204	On Semiconductor	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC33272	On Semiconductor	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\text{r}}40^\circ$ to 105°	Q
MC34001	Motorola (MOT)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC34001	Motorola (MOT)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC34001	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC34002	Motorola (MOT)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002	Motorola (MOT)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002	On Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002	On Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002	ST Microelectronics (STM)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002B	On Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34002B	On Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34004	Motorola (MOT)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC34004	Motorola (MOT)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC34004	On Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC34004	On Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC34004	ST Microelectronics (STM)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC34004B	On Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC34004B	On Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC34023	Motorola (MOT)	UC3823	16, 20	CDIP, PDIP, PLCC, SOIC	0° to 70°	Q
MC34025	Motorola (MOT)	UC3825	16, 20	CDIP, PDIP, PLCC, SOIC	0° to 70°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MC3403	Motorola (MOT)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC3403	Motorola (MOT)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC3403	On Semiconductor	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC3403	On Semiconductor	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
MC3403	Signetics (Philips)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC3403	ST Microelectronics (STM)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC34063A	Fairchild Semiconductor	MC34063A	8	PDIP, SOIC	0° to 70°	S
MC34063A	On Semiconductor	MC34063A	8	PDIP, SOIC	0° to 70°	S
MC34063AB	ST Microelectronics (STM)	MC33063A	8	PDIP, SOIC	-40° to 85°	S
MC34063AC	ST Microelectronics (STM)	MC34063A	8	PDIP, SOIC	0° to 70°	S
MC34063B	On Semiconductor	MC34063A	8	PDIP, SOIC	0° to 70°	S
MC34063EB	ST Microelectronics (STM)	MC33063A	8	PDIP, SOIC	-40° to 85°	S
MC34063EC	ST Microelectronics (STM)	MC34063A	8	PDIP, SOIC	0° to 70°	S
MC34072	Motorola (MOT)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\mu}$ 40° to 105°	Q
MC34072	On Semiconductor	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\mu}$ 40° to 105°	Q
MC34074	Motorola (MOT)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\mu}$ 40° to 105°	Q
MC34074	On Semiconductor	TL3474	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	S
MC34074	On Semiconductor	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\mu}$ 40° to 105°	Q
MC34074A	On Semiconductor	TL3474A	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	S
MC34181	On Semiconductor	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
MC34182	On Semiconductor	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
MC34184	On Semiconductor	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
MC34268	Motorola (MOT)	TL-SCSI285	3, 20	TO-220, TSSOP	0° to 125°	Q
MC3458	Motorola (MOT)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MC3458	Motorola (MOT)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
MC3458	Motorola (MOT)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC3458	On Semiconductor	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
MC3458	On Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC3458	On Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	Q
MC3458	On Semiconductor	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
MC35171	ST Microelectronics (STM)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
MC4558	Fairchild Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
MC4558	Motorola (MOT)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
MC4558	On Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
MC4558	ST Microelectronics (STM)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
MC4741	Motorola (MOT)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC4741C	On Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
MC7805	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
MC7805A	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
MC7805AE	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
MC7805E	Fairchild Semiconductor	UA7805	3	PFM, TO-220	0° to 125°	S
MC7808	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
MC7808A	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
MC7808AE	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
MC7808E	Fairchild Semiconductor	UA7808	3	PFM, TO-220	0° to 125°	S
MC7810	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
MC7810A	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
MC7810AE	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
MC7810E	Fairchild Semiconductor	UA7810	3	PFM, TO-220	0° to 125°	S
MC7812	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
MC7812A	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
MC7812AE	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
MC7812E	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S
MC7815	Fairchild Semiconductor	UA7812	3	PFM, TO-220	0° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

MC7815—NE5532A

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
MC7815	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
MC7815AE	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
MC7815E	Fairchild Semiconductor	UA7815	3	PFM, TO-220	0° to 125°	S
MC7824	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
MC7824A	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
MC7824AE	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
MC7824E	Fairchild Semiconductor	UA7824	3	PFM, TO-220	0° to 125°	S
MC78L05A	Fairchild Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
MC78L05A	On Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
MC78L05AA	Fairchild Semiconductor	UA78L05A	3, 8	SOIC, SOT-89, TO-92	0° to 125°, -40° to 125°	S
MC78L08A	Fairchild Semiconductor	UA78L08A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
MC78L12A	Fairchild Semiconductor	UA78L12A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
MC78L15A	Fairchild Semiconductor	UA78L12A	3, 8	SOIC, SOT-89, TO-92	0° to 125°	S
MC78M05	Fairchild Semiconductor	UA78M05	2, 3, 4	SOT-223, TO-220, PFM	0° to 125°, -40° to 125°	S
MC78M06	Fairchild Semiconductor	UA78M06	2	PFM	0° to 125°	S
MC78M08	Fairchild Semiconductor	UA78M08	2, 3, 4	SOT-223, TO-220, PFM	0° to 125°	S
MC78M12	Fairchild Semiconductor	UA78M12	2, 3	PFM, TO-220	0° to 125°	S
MC7905	Fairchild Semiconductor	UA7905	3	TO-220	0° to 125°	S
MC7905A	Fairchild Semiconductor	UA7905	3	TO-220	0° to 125°	S
MC7908	Fairchild Semiconductor	UA7908	3	TO-220	0° to 125°	S
MC7912	Fairchild Semiconductor	UA7912	3	TO-220	0° to 125°	S
MC7912A	Fairchild Semiconductor	UA7912	3	TO-220	0° to 125°	S
MC79L05A	Fairchild Semiconductor	MC79L05A	3, 8	SOIC, TO-92	0° to 125°	S
MC79L12A	Fairchild Semiconductor	MC79L12A	3, 8	SOIC, TO-92	0° to 125°	S
MC79L15A	Fairchild Semiconductor	MC79L15A	3	TO-92	0° to 125°	S
MC79M05	Fairchild Semiconductor	UA79M05	2, 3	PFM, TO-220	0° to 125°	S
MC79M08	Fairchild Semiconductor	UA79M08	2, 3	PFM, TO-220	0° to 125°	S
MCT1413	Motorola (MOT)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
MIC38C42	Micrel	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	Q
MIC38C43	Micrel	UC3843	8, 14	CDIP, PDIP, SOIC	0° to 70°	Q
MIC38HC42	Micrel	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	Q
MIC38HC43	Micrel	UC3843	8, 14	CDIP, PDIP, SOIC	0° to 70°	Q
MX7226	Maxim	TLC7226	20	PDIP, SOIC	-40° to 85°	S
MX7528	Maxim	TLC7528	20	PDIP, PLCC, SOIC, SOP, TSSOP	0° to 70°, -25° to 85°, -40° to 85°	S
MXL1013	Maxim	LT1013	8	PDIP, SOIC	0° to 70°	S
MXL1013D	Maxim	LT1013D	8	PDIP, SOIC	0° to 70°, -40° to 85°, -55° to 125°	S
MXL1014	Maxim	LT1014	14	PDIP	0° to 70°	S
MXL1014	Maxim	LT1014A	14	CDIP, PDIP	-55° to 125°	S
MXL1014	Maxim	LT1014D	14, 16	PDIP, SOIC	0° to 70°, -40° to 105°, -55° to 125°	Q
MXL1014D	Maxim	LT1014D	14, 16	PDIP, SOIC	0° to 70°, -40° to 105°, -55° to 125°	S
NCV1009	On Semiconductor	LT1009	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	S
NCV33063A	On Semiconductor	MC33063A	8	PDIP, SOIC	-40° to 85°	Q
NE4558	Philips Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
NE4558	Signetics (Philips)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
NE5234	Philips Semiconductor	TLV2264	14	PDIP, SOIC, TSSOP	-40° to 125°	Q
NE532	Philips Semiconductor	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
NE532	Philips Semiconductor	LM358A	8	MSOP, PDIP, SOIC, TSSOP	0° to 70°	S
NE532	Signetics (Philips)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NE5514	Philips Semiconductor	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
NE5514	Philips Semiconductor	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NE5514	Signetics (Philips)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NE5532	Fairchild Semiconductor	NE5532	8	PDIP, SOIC, SOP	0° to 70°	S
NE5532	Philips Semiconductor	NE5532	8	PDIP, SOIC, SOP	0° to 70°	S
NE5532A	Philips Semiconductor	NE5532A	8	PDIP, SOIC, SOP	0° to 70°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product



Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
NE5534	Philips Semiconductor	NE5534	8	PDIP, SOIC, SOP	0° to 70°	S
NE5534A	Philips Semiconductor	NE5534A	8	PDIP, SOIC	0° to 70°	S
NE555	Philips Semiconductor	NE555	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
NE556	Philips Semiconductor	NE556	14	PDIP, SOIC, SOP, SSOP	0° to 70°	S
NE592	Philips Semiconductor	TL592B	8	PDIP, SOIC, SOP	0° to 70°	S
NJD6513	New Japan Radio (NJR)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
NJM062	New Japan Radio (NJR)	TL032	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
NJM062	New Japan Radio (NJR)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
NJM064	New Japan Radio (NJR)	TL034	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM064	New Japan Radio (NJR)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
NJM072	New Japan Radio (NJR)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
NJM074	New Japan Radio (NJR)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
NJM082	New Japan Radio (NJR)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJM082	New Japan Radio (NJR)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
NJM084	New Japan Radio (NJR)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM084	New Japan Radio (NJR)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
NJM2058	New Japan Radio (NJR)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM2059	New Japan Radio (NJR)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM2060	New Japan Radio (NJR)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM2100	New Japan Radio (NJR)	TLV2362	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM2112	New Japan Radio (NJR)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
NJM2115	New Japan Radio (NJR)	TLV2362	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
NJM2360	New Japan Radio (NJR)	MC33063A	8	PDIP, SOIC	-40° to 85°	S
NJM2380	New Japan Radio (NJR)	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
NJM2380A	New Japan Radio (NJR)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
NJM2403	New Japan Radio (NJR)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
NJM2901	New Japan Radio (NJR)	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
NJM2901	New Japan Radio (NJR)	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	Q
NJM2902	New Japan Radio (NJR)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
NJM2902	New Japan Radio (NJR)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM2903	New Japan Radio (NJR)	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
NJM2903	New Japan Radio (NJR)	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM2904	New Japan Radio (NJR)	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
NJM2904	New Japan Radio (NJR)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM311	New Japan Radio (NJR)	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
NJM324	New Japan Radio (NJR)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
NJM324	New Japan Radio (NJR)	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
NJM3403	New Japan Radio (NJR)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
NJM3403	New Japan Radio (NJR)	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
NJM3403	New Japan Radio (NJR)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM3403A	New Japan Radio (NJR)	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
NJM3403A	New Japan Radio (NJR)	MC3303	14	PDIP, SOIC, TSSOP	-40° to 85°	Q
NJM3403A	New Japan Radio (NJR)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM3404	New Japan Radio (NJR)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM3414A	New Japan Radio (NJR)	TL3414A	8	PDIP, TSSOP	-40° to 85°	S
NJM3415	New Japan Radio (NJR)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJM353	New Japan Radio (NJR)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJM431	New Japan Radio (NJR)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
NJM431	New Japan Radio (NJR)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
NJM4558	New Japan Radio (NJR)	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
NJM4560	New Japan Radio (NJR)	RC4560	8	PDIP, SOIC	-40° to 85°	S
NJM4560	New Japan Radio (NJR)	RC4580	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
NJM4580	New Japan Radio (NJR)	RC4580	8	PDIP, SOIC, TSSOP	-40° to 85°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

NJM4741—OP293

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
NJM4741	New Japan Radio (NJR)	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJU7002	New Japan Radio (NJR)	TLC25L2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJU7004	New Japan Radio (NJR)	TLC25L4	14	PDIP, SOIC, TSSOP	0° to 70°	Q
NJU7022	New Japan Radio (NJR)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJU7024	New Japan Radio (NJR)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJU7032	New Japan Radio (NJR)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
NJU7032	New Japan Radio (NJR)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
NJU7034	New Japan Radio (NJR)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
NJU7034	New Japan Radio (NJR)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	Q
NJU7074	New Japan Radio (NJR)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
NJU7102	New Japan Radio (NJR)	TLC3702	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJU7104	New Japan Radio (NJR)	TLC3704	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
NJU7112	New Japan Radio (NJR)	TLC372	8	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
NJU7114	New Japan Radio (NJR)	TLC374	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	Q
OP-02	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP-05	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP07	Analog Devices (ADI)	OP07	8	PDIP, SOIC	0° to 70°	S
OP07	Maxim	OP07C	8	PDIP, SOIC	0° to 70°	Q
OP-07	Analog Devices (ADI)	OP07	8	PDIP, SOIC	0° to 70°	S
OP07A	Maxim	OP07C	8	PDIP, SOIC	0° to 70°	Q
OP07C	Maxim	OP07C	8	PDIP, SOIC	0° to 70°	S
OP07D	Maxim	OP07D	8	PDIP, SOIC, SOP	0° to 70°	S
OP07E	Maxim	OP07C	8	PDIP, SOIC	0° to 70°	Q
OP113	Analog Devices (ADI)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
OP113	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP-113	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP11G	Analog Devices (ADI)	LM224	14	PDIP, SOIC	-25° to 85°	S
OP-15	Analog Devices (ADI)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
OP-15	Analog Devices (ADI)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP-15	Analog Devices (ADI)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP20	Analog Devices (ADI)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
OP-20	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP21	Analog Devices (ADI)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
OP-21	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OP213	Analog Devices (ADI)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
OP-213	Analog Devices (ADI)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
OP-215	Analog Devices (ADI)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
OP-215	Analog Devices (ADI)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP-215	Analog Devices (ADI)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP22	Analog Devices (ADI)	TLV2341	8	PDIP, SOIC, TSSOP	-40° to 85°	Q
OP221	Analog Devices (ADI)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
OP221	Analog Devices (ADI)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP-221	Analog Devices (ADI)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
OP-221	Analog Devices (ADI)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP221G	Analog Devices (ADI)	LM258	8	PDIP, MSOP, SOIC	-25° to 85°	S
OP-282	Analog Devices (ADI)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP283	Analog Devices (ADI)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
OP-283	Analog Devices (ADI)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
OP-283	Analog Devices (ADI)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
OP-283	Analog Devices (ADI)	TLE2142	8, 16	PDIP, SOIC, TSSOP	0° to 70°, $\bar{\nu}$ 40° to 105°	Q
OP291	Analog Devices (ADI)	TLV2262	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
OP291	Analog Devices (ADI)	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
OP291	Analog Devices (ADI)	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP293	Analog Devices (ADI)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
OP295	Analog Devices (ADI)	TLV2262	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
OP295	Analog Devices (ADI)	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
OP295	Analog Devices (ADI)	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP296	Analog Devices (ADI)	TLC2252	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
OP296	Analog Devices (ADI)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
OP420	Analog Devices (ADI)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
OP421	Analog Devices (ADI)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
OP421	Analog Devices (ADI)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
OP450	Analog Devices (ADI)	OPA4342	14	PDIP, SOIC, TSSOP	-40° to 85°	S
OP-482	Analog Devices (ADI)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
OP484	Analog Devices (ADI)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
OP490	Analog Devices (ADI)	TLV2764	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
OP491	Analog Devices (ADI)	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
OP491	Analog Devices (ADI)	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP493	Analog Devices (ADI)	TLC2254	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
OP495	Analog Devices (ADI)	TLV2432	8	CDIP, SOIC, TSSOP	-40° to 125°, -55° to 125°	Q
OP495	Analog Devices (ADI)	TLV2442	8	SOIC, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
OP496	Analog Devices (ADI)	TLC2264	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
OP80	Analog Devices (ADI)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	Q
OP97	Analog Devices (ADI)	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
OPA1013	Analog Devices (ADI)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
PI3L100	Pericom Semiconductor	TS3L100	16	QSOP/SSOP, SOIC, TSSOP	0° to 70°	S
PI3L110	Pericom Semiconductor	TS3L110*	16	QSOP/SSOP, SOIC, TSSOP, TVSOP, QFN	-40° to 85°	S
PI3L301D	Pericom Semiconductor	TS3L301*	48	TSSOP, TVSOP	-40° to 85°	S
PI5A3159	Pericom Semiconductor	TS5A3159*	6	SC-70, SOT-23	-40° to 85°	S
PI5A4594	Pericom Semiconductor	MAX4594	5	SC-70	-40° to 85°	Q
PI5A4595	Pericom Semiconductor	MAX4595	5	SC-70	-40° to 85°	Q
PI5A4596	Pericom Semiconductor	MAX4596	5	SC-70	-40° to 85°	Q
PI5A4597	Pericom Semiconductor	MAX4597	5	SC-70	-40° to 85°	Q
PI5L100	Pericom Semiconductor	TS5L100	16, 20	QSOP/SSOP, SOIC, TSSOP	0° to 70°	S
PI90LV031A	Pericom Semiconductor	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	Q
PI90LV032A	Pericom Semiconductor	SN65LVDS32	16	SOIC, SOP, TSSOP	-40° to 85°	Q
PQ1U501M	Sharp Corporation	LP2985-50	5	SOT-23	Planned	S
PQ1X251	Sharp Corporation	LP2985-25	5	SOT-23	Planned	S
PQ1X281	Sharp Corporation	LP2985-28*	5	SOT-23	-40° to 125°	S
PQ1X301	Sharp Corporation	LP2985-30	5	SOT-23	Planned	S
PQ1X331	Sharp Corporation	LP2985-33*	5	SOT-23	-40° to 125°	S
PQ1X501	Sharp Corporation	LP2985-50	5	SOT-23	Planned	S
RC3403A	Fairchild Semiconductor	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
RC4558	Fairchild Semiconductor	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
REF02	Maxim	REF02	8	PDIP, SOIC	-40° to 85°	S
RT34063A	RichTek	MC34063A	8	PDIP, SOIC	0° to 70°	S
SA532	Philips Semiconductor	LM258	8	PDIP, MSOP, SOIC	-25° to 85°	S
SA534	Philips Semiconductor	LM224	14	PDIP, SOIC	-25° to 85°	S
SA5532	Philips Semiconductor	SA5532	8	PDIP	-40° to 85°	S
SA5534	Philips Semiconductor	SA5534	8	PDIP, SOIC	-40° to 85°	S
SA5534A	Philips Semiconductor	SA5534A	8	PDIP, SOIC	-40° to 85°	S
SA555	Philips Semiconductor	SA555	8	PDIP, SOIC	-40° to 85°	S
SA556	Philips Semiconductor	SA556	14	PDIP	-40° to 85°	S
SC431	Semtech Corporation	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SC431	Semtech Corporation	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SC431	Semtech Corporation	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

SC431-.5—SPX5205-1.8

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
SC431-.5	Semtech Corporation	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SC431-1	Semtech Corporation	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SC431-2	Semtech Corporation	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SC431L-.5	Semtech Corporation	TLV431B*	3, 5	SOT-23, TO-92	0° to 70, -40° to 85°, -40° to 125°	S
SC431L-.5	Semtech Corporation	TLV432B	3	SOT-23	Planned	S
SC431L-1	Semtech Corporation	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
SC431L-1	Semtech Corporation	TLV432A	3	SOT-23	Planned	S
SC431L-2	Semtech Corporation	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
SC431L-2	Semtech Corporation	TLV432	3	SOT-23, SOT-89	Planned	S
SE532	Philips Semiconductor	LM158	8	CDIP	-55° to 125°	S
SE555	Philips Semiconductor	SE555	8	PDIP	-55° to 125°	S
SG2003	Microsemi Corporation (Linfinty)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
SG3525A	Motorola (MOT)	UC3525A	16, 20	CDIP, PDIP, PLCC, SOIC	0° to 70°	S
SP207	Sipex Corporation	MAX207	24	SOIC, SSOP	0° to 70°, -40° to 85°	S
SP208	Sipex Corporation	MAX208	24	PDIP, SOIC, SSOP	0° to 70°, -40° to 85°	S
SP232	Sipex Corporation	MAX232	16	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
SP3220EU	Sipex Corporation	SN75C3221	16	SOIC, SSOP, TSSOP	0° to 70°	S
SP3222E	Sipex Corporation	SN75C3222	20	SSOP, TSSOP	0° to 70°	S
SP3243	Sipex Corporation	MAX3243*	28	SOIC, SSOP, TSSOP	0° to 70°, -40° to 85°	S
SP3243EU	Sipex Corporation	SN65C3243	28	QSOP/SSOP, SOIC, SSOP, TSSOP	-40° to 85°	S
SP3243EU	Sipex Corporation	SN75C3243	28	QSOP/SSOP, SOIC, SSOP, TSSOP	0° to 70°	S
SP34063A	Sipex Corporation	MC34063A	8	PDIP, SOIC	0° to 70°	S
SP485	Sipex Corporation	SN65176B	8	PDIP, SOIC	-40° to 105°	S
SP485	Sipex Corporation	SN75176B	8	PDIP, SOIC, SOP	0° to 70°	S
SP485E	Sipex Corporation	SN65176B	8	PDIP, SOIC	-40° to 105°	S
SP485E	Sipex Corporation	SN75176B	8	PDIP, SOIC, SOP	0° to 70°	S
SP491	Sipex Corporation	SN65ALS180	14	PDIP, SOIC	-40° to 85°	S
SP491E	Sipex Corporation	SN65ALS180	14	PDIP, SOIC	-40° to 85°	S
SPX1431	Sipex Corporation	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
SPX2431	Sipex Corporation	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX2431A	Sipex Corporation	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX2431L	Sipex Corporation	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
SPX2431L	Sipex Corporation	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX2431LA	Sipex Corporation	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
SPX2431LA	Sipex Corporation	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431A	Sipex Corporation	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431B	Sipex Corporation	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431C	Sipex Corporation	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431L	Sipex Corporation	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431L	Sipex Corporation	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431LA	Sipex Corporation	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431LA	Sipex Corporation	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431LC	Sipex Corporation	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SPX431LC	Sipex Corporation	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
SPX432	Sipex Corporation	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
SPX432A	Sipex Corporation	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
SPX5205-1.5	Sipex Corporation	LP2985A-15	5	SOT-23	Planned	S
SPX5205-1.8	Sipex Corporation	LP2985A-18*	5	SOT-23	-40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
SPX5205-2.0	Sipex Corporation	LP2985A-20	5	SOT-23	Planned	S
SPX5205-2.5	Sipex Corporation	LP2985A-25	5	SOT-23	Planned	S
SPX5205-2.8	Sipex Corporation	LP2985A-28*	5	SOT-23	-40° to 125°	S
SPX5205-3.0	Sipex Corporation	LP2985A-30	5	SOT-23	Planned	S
SPX5205-3.3	Sipex Corporation	LP2985A-33*	5	SOT-23	-40° to 125°	S
SPX5205-5.0	Sipex Corporation	LP2985A-50	5	SOT-23	Planned	S
ST75185	ST Microelectronics (STM)	GD75232	20	PDIP, SOIC, SSOP, TSSOP	0° to 70°	Q
ST75185	ST Microelectronics (STM)	SN75185	20	PDIP, SOIC, SSOP	0° to 70°	S
ST75185	ST Microelectronics (STM)	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
ST75C185	ST Microelectronics (STM)	SN75LP1185	20	PDIP, SOIC, SSOP	0° to 70°	Q
STLVDS050B	ST Microelectronics (STM)	SN65LVDS050	16	SOIC, TSSOP	-40° to 85°	S
STLVDS31B	ST Microelectronics (STM)	SN65LVDS31	16	SOIC, SOP, TSSOP	-40° to 85°	S
STLVDS32B	ST Microelectronics (STM)	SN65LVDS32	16	SOIC, SOP, TSSOP	-40° to 85°	S
STLVDS3486B	ST Microelectronics (STM)	SN65LVDS3486	16	SOIC	-40° to 85°	S
STLVDS3487B	ST Microelectronics (STM)	SN65LVDS3487	16	SOIC	-40° to 85°	S
SXP431A	Sipex Corporation	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SXP431B	Sipex Corporation	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
SXP431C	Sipex Corporation	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TA75061	Toshiba Electronic Components	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TA75062	Toshiba Electronic Components	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TA75064	Toshiba Electronic Components	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TA75071	Toshiba Electronic Components	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TA75072	Toshiba Electronic Components	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TA75074	Toshiba Electronic Components	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TA75324	Toshiba Electronic Components	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
TA75324	Toshiba Electronic Components	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
TA75339	Toshiba Electronic Components	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
TA75339	Toshiba Electronic Components	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
TA75358	Toshiba Electronic Components	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
TA75358	Toshiba Electronic Components	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
TA75393	Toshiba Electronic Components	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
TA75393	Toshiba Electronic Components	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
TA75557	Toshiba Electronic Components	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TA75558	Toshiba Electronic Components	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TA75902	Toshiba Electronic Components	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
TA76431	Toshiba Electronic Components	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
TA76431	Toshiba Electronic Components	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TA76494	Toshiba Electronic Components	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
TC1030	Telcom (Microchip Technology)	TLV2765	16	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
TCA0372	Motorola (MOT)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
TD62003	Toshiba Electronic Components	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
TL061	Motorola (MOT)	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL061	ST Microelectronics (STM)	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL062	Motorola (MOT)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL062	On Semiconductor	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL062	ST Microelectronics (STM)	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL064	Motorola (MOT)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL064	On Semiconductor	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL064	ST Microelectronics (STM)	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL071	Motorola (MOT)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL071	On Semiconductor	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

TL071—TS2431

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
TL071	ST Microelectronics (STM)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL072	Motorola (MOT)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL072	On Semiconductor	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL072	ST Microelectronics (STM)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL074	Motorola (MOT)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL074	On Semiconductor	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL074	ST Microelectronics (STM)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL081	Motorola (MOT)	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
TL081	Motorola (MOT)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL081	National Semiconductor (NSC)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL081	On Semiconductor	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL081	ST Microelectronics (STM)	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
TL082	Motorola (MOT)	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
TL082	Motorola (MOT)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL082	National Semiconductor (NSC)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL082	On Semiconductor	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL082	ST Microelectronics (STM)	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TL084	Motorola (MOT)	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
TL084	Motorola (MOT)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL084	On Semiconductor	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL084	ST Microelectronics (STM)	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL1431	ST Microelectronics (STM)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	S
TL431	Fairchild Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431	Motorola (MOT)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	Q
TL431	On Semiconductor	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431	ST Microelectronics (STM)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431	Vishay Siliconix (SI)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
TL431	Vishay Siliconix (SI)	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
TL431A	Fairchild Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431A	On Semiconductor	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431A	ST Microelectronics (STM)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431A	Vishay Siliconix (SI)	TL431A*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TL431A	Vishay Siliconix (SI)	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
TL431B	Motorola (MOT)	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	S
TL431B	On Semiconductor	TL1431	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 125°	S
TL431B	On Semiconductor	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
TL431B	ST Microelectronics (STM)	TLV431B*	3, 5	SOT-23, TO-92	0° to 70, -40° to 85°, -40° to 125°	S
TL494	Fairchild Semiconductor	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
TL494	Fairchild Semiconductor	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
TL494	Motorola (MOT)	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
TL494	Motorola (MOT)	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
TL494	On Semiconductor	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
TL494	On Semiconductor	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
TL594	Motorola (MOT)	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TL594	On Semiconductor	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
TLV431A	On Semiconductor	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
TLV431B	On Semiconductor	TLV431B*	3, 5	SOT-23, TO-92	0° to 70, -40° to 85°, -40° to 125°	S
TS2431	ST Microelectronics (STM)	TL431*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89,	0° to 70°, -40° to 85°, -40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer

Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
TS2431A	ST Microelectronics (STM)	TL431A*	3, 5, 6, 8	TO-92, TSSOP PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TS2431B	ST Microelectronics (STM)	TL431B*	3, 5, 6, 8	PDIP, SOIC, SC-70, SOP, SOT-23, SOT-89, TO-92, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TS271	ST Microelectronics (STM)	TLC271	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -55° to 125°	S
TS272	ST Microelectronics (STM)	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
TS272	ST Microelectronics (STM)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
TS274	ST Microelectronics (STM)	TLC274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -55° to 125°	S
TS27L2	ST Microelectronics (STM)	TLC27L2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TS27L4	ST Microelectronics (STM)	TLC27L4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
TS27M2	ST Microelectronics (STM)	TLC27M2	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TS27M4	ST Microelectronics (STM)	TLC27M4	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TS339	ST Microelectronics (STM)	TLC339	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	S
TS3702	ST Microelectronics (STM)	TLC3702	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TS3704	ST Microelectronics (STM)	TLC3704	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
TS372	ST Microelectronics (STM)	TLC372	8	PDIP, SOIC, SOP, TSSOP	-40° to 125°	S
TS374	ST Microelectronics (STM)	TLC374	14	PDIP, SOIC, SOP, SSOP, TSSOP	-55° to 125°	S
TS393	ST Microelectronics (STM)	TLC393	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
TS3V912	ST Microelectronics (STM)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
TS3V914	ST Microelectronics (STM)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
TS431	ST Microelectronics (STM)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS431A	ST Microelectronics (STM)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS431A	ST Microelectronics (STM)	TLV431A*	3, 5, 8	SOIC, SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS432	ST Microelectronics (STM)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS433	ST Microelectronics (STM)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS434	ST Microelectronics (STM)	TLV431*	3, 5	SOT-23, TO-92	0° to 70°, -40° to 85°	S
TS822	ST Microelectronics (STM)	LT1004-2.5	3, 8	SOIC, TO-92, TSSOP	0° to 70°, -40° to 85°	Q
TS912	ST Microelectronics (STM)	TLC2262	8	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
TS912	ST Microelectronics (STM)	TLC2272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 125°	Q
TS912	ST Microelectronics (STM)	TLC272	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
TS912	ST Microelectronics (STM)	TLV2262	8	PDIP, SOIC, TSSOP	-40° to 125°	Q
TS914	ST Microelectronics (STM)	TLC2274	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 125°, -55° to 125°	Q
TS944	ST Microelectronics (STM)	TLV2404	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 125°	Q
UA324	Fairchild Semiconductor	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
UA771	Advanced Linear Devices	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
UA772	Advanced Linear Devices	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
UA774	Advanced Linear Devices	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	Q
UC3842	Fairchild Semiconductor	TL3842	8, 14	PDIP, SOIC	0° to 70°	S
UC3842	Motorola (MOT)	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3842	Philips Semiconductor	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3842	Signetics (Philips)	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3842	ST Microelectronics (STM)	UC3842	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3842A	Fairchild Semiconductor	UC3842A	8, 14, 16	CDIP, PDIP, SOIC	0° to 70°	S
UC3843	Fairchild Semiconductor	TL3843	8, 14	PDIP, SOIC	0° to 70°	S
UC3843	Motorola (MOT)	UC3843	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3843	ST Microelectronics (STM)	UC3843	8, 14	CDIP, PDIP, SOIC	0° to 70°	S
UC3843A	Motorola (MOT)	UC3843A	8, 14	CDIP, PDIP, SOIC	0° to 70°	Q
UC3844	Fairchild Semiconductor	TL3844	8, 14	PDIP, SOIC	0° to 70°	S
UC3845	Fairchild Semiconductor	TL3845	8, 14	PDIP, SOIC	0° to 70°	S
UC3846	Fairchild Semiconductor	UC3846	16	PDIP	0° to 70°	S
ULN2003	Allegro (Sprague)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
ULN2003	Fairchild Semiconductor	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

# Standard Linear Products Cross-Reference by Device

ULN2003—UPC821

Competitor Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
ULN2003	Motorola (MOT)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
ULN2003	Signetics (Philips)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
ULN2003	ST Microelectronics (STM)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
ULN-2003	Allegro (Sprague)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
ULN8194	Allegro (Sprague)	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
ULQ2003	Motorola (MOT)	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
UPA2003	NEC Electronics	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
UPC1251	NEC Electronics	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC1251	NEC Electronics	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC177	NEC Electronics	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC177	NEC Electronics	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
UPC254	NEC Electronics	TLE2021	8	CDIP, PDIP, SOIC, TSSOP	-55° to 125°	Q
UPC258	NEC Electronics	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC259	NEC Electronics	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC271	NEC Electronics	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC277	NEC Electronics	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC277	NEC Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC311	NEC Electronics	LM311	8	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC324	NEC Electronics	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC324	NEC Electronics	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC339	NEC Electronics	LM2901	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC339	NEC Electronics	LM339	14	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°	S
UPC3403	NEC Electronics	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC358	NEC Electronics	LM2904	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC358	NEC Electronics	LM358	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC393	NEC Electronics	LM2903	8	MSOP, PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC393	NEC Electronics	LM393	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC4061	NEC Electronics	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
UPC4062	NEC Electronics	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC4064	NEC Electronics	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC4071	NEC Electronics	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
UPC4072	NEC Electronics	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC4074	NEC Electronics	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC4081	NEC Electronics	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
UPC4081	NEC Electronics	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
UPC4082	NEC Electronics	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
UPC4082	NEC Electronics	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC4084	NEC Electronics	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
UPC4084	NEC Electronics	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
UPC451	NEC Electronics	LM2902	14	PDIP, SOIC, SOP, TSSOP	-40° to 125°	Q
UPC451	NEC Electronics	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC452	NEC Electronics	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
UPC4558	NEC Electronics	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC4560	NEC Electronics	RC4560	8	PDIP, SOIC	-40° to 85°	S
UPC4744	NEC Electronics	TL3474	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	Q
UPC4744	NEC Electronics	TL3474A	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
UPC494	NEC Electronics	TL594	16	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
UPC801	NEC Electronics	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	Q
UPC801	NEC Electronics	TL081	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
UPC803	NEC Electronics	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	Q
UPC803	NEC Electronics	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC804	NEC Electronics	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
UPC804	NEC Electronics	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
UPC821	NEC Electronics	TL071	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent  
 \*Must-Have Product

Standard Linear Products Cross-Reference by Device

Packaging Information and Cross-Reference by Manufacturer



Competitor Generic Device Name	Competitor	Texas Instruments Equivalent Device	Pin Count	Available Packages	Temperature Ranges	Usage Code
UPC822	NEC Electronics	TL072	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC824	NEC Electronics	TL074	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC831	NEC Electronics	TL061	8	PDIP, SOIC, SOP	0° to 70°, -40° to 85°	S
UPC832	NEC Electronics	TL062	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
UPC834	NEC Electronics	TL064	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	S
UPC844	NEC Electronics	TL3474	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 105°	Q
UPC844	NEC Electronics	TL3474A	14	PDIP, SOIC, TSSOP	0° to 70°, -40° to 85°	Q
XR-082	Exar	TL082	8	CDIP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -55° to 125°	S
XR-084	Exar	TL084	14	PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°, -40° to 125°	S
XR-1458	Exar	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
XR-2003	Exar	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	S
XR-2013	Exar	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
XR-2203	Exar	ULN2003A	16	PDIP, SOIC, SOP, TSSOP	-20° to 70°	Q
XR-3403	Exar	MC3403	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	S
XR-4212	Exar	LM324	14	PDIP, SOIC, SOP, TSSOP	0° to 70°	Q
XR-4558	Exar	RC4558	8	MSOP, PDIP, SOIC, SOP, TSSOP	0° to 70°, -40° to 85°	Q
XR-494	Exar	TL494	16	PDIP, SOIC, SOP, SSOP, TSSOP	0° to 70°, -40° to 85°	S
ZHT431	Zetex	TL432*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
ZHT431	Zetex	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
ZR431	Zetex	TL432A*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S
ZR431	Zetex	TL432B*	3, 5	SOT-23	0° to 70°, -40° to 85°, -40° to 125°	S

Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

## Packaging Information and Cross-Reference by Manufacturer

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>ANALOG DEVICES (ADI)</b>			
KS	DCK	SC-70	5
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
N8	P	PDIP	8
P	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
R, RN	D	SOIC	8, 14, 16
RM	DGK	MSOP	8
	DGS	MSOP	10
R, RW	DW	SOIC Wide (SOWB)	16, 20, 24, 28
RS	DB	SSOP	14, 16, 20, 24,
			28, 30, 38
RT	DBV	SOT-23	5
RU	PW	TSSOP	8, 14, 16, 20, 24, 28
S	D	SOIC	8, 14, 16
S	DW	SOIC Wide (SOWB)	16, 20, 24, 28
T9	LP, LPM	TO-92	3
U	PW	TSSOP	8, 14, 16, 20, 24, 28
RL, RL7, REEL, REEL7	R suffix	Tape & Reel	
<b>FAIRCHILD</b>			
C8	D	SOIC	8
D	D	SOIC	8, 14, 16
D	KTP*	DPAK (TO-252)	3
DT	KTP*	DPAK (TO-252)	3
G	PW	TSSOP	8, 14, 16, 20, 24, 28
	DB	SSOP	20
K8	DCU	SOT	8
M, M8, M14, etc.	D	SOIC	8, 14, 16
M, M8	DGK	MSOP	8
M, M5	DBV	SOT-23	5
M	DCK	SC-70	5
M	D	SOIC	8, 14, 16
M	KTE*	TO-263	3
M	PK	SOT-89	3
MA	DGK	MSOP	8
MC		TO-263 (Center Cut)	
MCT	PW	TSSOP	20
MEA	DL	SSOP	28, 48, 56
MSA	DB	SSOP	14, 16, 20, 24,
			28, 30, 38
MT, MTC	PW	TSSOP	8, 14, 16, 20, 24, 28
MTD	DGG	TSSOP	48, 56, 64
MU, MU8	DGK	MSOP	8

\*Denotes one-way compatibility: TI package CAN fit on competitor's land pattern but not vice versa

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>FAIRCHILD (Continued)</b>			
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
P	KTG	SPAK/ PowerFlex	5
P	LP	TO-92	3
P	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
P, P8, P14, etc.	PW	TSSOP	8, 14, 16, 20, 24, 28
P5	DCK	SC-70	5
PC	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
QSC	DBQ	SSOP	16, 20, 24
R	DBV	SOT-23	5
R	KTP*	DPAK (TO-252)	3
RR	KTE*	TO-263	3
S	DCY	SOT-223	4
S5	DCK	SC-70	5
SC	D	SOIC	14, 16
SC	DW	SOIC Wide (SOWB)	16, 20, 24, 28
SPC	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
SSC	DL	SSOP	28, 48, 56
T	LP	TO-92	3
T5	DBV	SOT-23	5
T, TA, TU	KC	TO-220	3
WM	DW	SOIC Wide (SOWB)	16, 20, 24, 28
X1TL	LP	TO-92	3
Z	LP	TO-92	3
X, XM, T, TF, TM, TR3, STF	R suffix	Tape & Reel	
XA, TA suffix	M suffix	Ammo Pack	
<b>INTERSIL</b>			
B, BA	D	SOIC	8, 14, 16
E	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
H	DBV	SOT23	5
J	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
M	D	SOIC	8, 14, 16
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
P, PA, PD	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
V	PW	TSSOP	8, 14, 16, 20, 24, 28
T, 96 suffix	R suffix	Tape & Reel	

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Usage Codes: S=Equivalent, Q= Same functionality and pinout but not exact equivalent

\*Must-Have Product

## Packaging Information and Cross-Reference by Manufacturer

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>LINEAR TECHNOLOGY</b>			
F, FW	PW	TSSOP	8, 14, 16, 20, 24, 28
G, GW	DB	SSOP	14, 16, 20, 24, 28, 30, 38
M	KTE*	DDPAK (TO-263)	3
MS8, MS10	DGK, DGS	MSOP	8, 10
N8	P	PDIP	8
N	N	PDIP	14, 16, 20, 24, 28
NW	NT	PDIP	24, 28
Q	KTG*	DDPAK (TO-263)	5
S5	DBV	SOT-23	5
S8	D	SOIC	8
S	D	SOIC	8, 14, 16
ST	DCY	SOT-223	4
SW	DW	SOIC Wide (SOWB)	16, 20, 24, 28
T	T	TO-220	3
Z	LP, LPM	TO-92	3
#TR, T/R suffix	R suffix	Tape & Reel	
<b>MAXIM**</b>			
A pin # code	DB	SSOP	<b>PIN # CODE</b> R = 3 K = 5 T = 6 A = 8 D = 14 E = 16 N = 18 P = 20 I = 28
C pin # code	KC	TO-220	
N pin # code	P	PDIP	
	N	PDIP	
P pin # code	P	PDIP	
	N, P	PDIP	
S pin # code	D	SOIC	
U pin # code	DBV	SOT-23	
U pin # code	PW	TSSOP	
U pin # code	DCY	SOT-223	
W pin # code	DW	SOIC Wide (SOWB)	
X pin # code	DCK	SC-70	
Z pin # code	LP, LPM	TO-92	
T suffix	R suffix	Tape & Reel	
<b>MICREL</b>			
C5	DCK	SC-70	5
M5	DBV	SOT-23	5
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
R	KTG	SPAK/PowerFlex	5
S	DCY	SOT-223	4
SM	DB	SSOP	20, 24, 28
T	KC	TO-220	3
TS	PW	TSSOP	8, 14, 16, 20, 24, 28

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\*\* Example: MAX3221CUET comes in TSSOP (U), 16 (E) pin, Tape & Reel (T)

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>MICREL (Continued)</b>			
U	KTG*	TO-263	3
	KTE*	TO-263	5
WM	DW	SOIC Wide (SOWB)	16, 20, 24, 28
Z	LP, LPM	TO-92	3
T & R suffix	R suffix	Tape & Reel	
AP suffix	M suffix	Ammo Pack	
<b>NATIONAL</b>			
DT	KTP*	DPAK (TO-252)	3
M	NS, PS	SOP	8, 14, 16
M	D	SOIC	8, 14, 16
M5	DBV	SOT-23	5
M7	DCK	SC-70	5
MA	D	SOIC	8, 14, 16
ME	DL	SSOP	28, 48, 56
MEB, MEC, MED	DB	SSOP	14, 16, 20, 24, 28, 30, 38
MF	DBV	SOT-23	5
MG	DCK	SC-70	5
MM	DGK	MINI SOIC (MSOP)	8
	DGS	MINI SOIC (MSOP)	10
MP	DCY	SOT-223	4
MQ, MQA	DB	SSOP	14, 16, 20, 24, 28, 30, 38
MS, MSA, MSC	DB	SSOP	14, 16, 20, 24, 28, 30, 38
MT	PW	TSSOP	8, 14, 16, 20, 24, 28
MW	DW	SOIC Wide (SOWB)	16, 20, 24, 28
N, NA	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
N8	P	PDIP	8
N14	N	PDIP	14
R	LP, LPM	TO-92	3
S	KTE*	TO-263	3
	KTG*	TO-263	5
T	KC	TO-220	3
TA	KC	TO-220	3
TD	KTP*	DPAK (TO-252)	3
TS	KTE*	TO-263	3
	KTG*	TO-263	5
WM	DW	SOIC Wide (SOWB)	16, 20, 24, 28
Z	LP, LPM	TO-92	3
ZA	LP, LPM	TO-92	3
X suffix	R suffix	Tape & Reel	

\* Denotes one-way compatibility: TI package CAN fit on competitor's land pattern but not vice versa

## Packaging Information and Cross-Reference by Manufacturer

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>MOTOROLA/ON</b>			
CP	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
D, D1, D2	D	SOIC	8, 14, 16
D2T	KTE*	D2PAK (TO-263)	3
	KTG*	D2PAK (TO-263)	5
DF	DCK	SC-70	5
DM	DGK	MSOP (MICRO-8)	8
DP, DP3	KTE*	D2PAK (TO-263)	3
DT	DCK	SC-70	5
DT	DGG	TSSOP	48, 56, 64
DT	KTP*	DPAK (TO-252)	3
DT, DTB	PW	TSSOP	8, 14, 16, 20, 24, 28
DW	DW	SOIC Wide (SOWB)	16, 20, 24, 28
F	PS	SOP	8
	NS	SOP	14, 16, 20, 24
H	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
KC	KC	TO-220	3
LP	Z	TO-92	3
M	DB	SSOP	14, 16, 20, 24, 28, 30, 38
M	PS	SOP	8
	NS	SOP	14, 16, 20, 24
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
N8	P	PDIP	8
P	LP, LPM	TO-92	3
P, P1, P2	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
SD	DB	SSOP	14, 16, 20, 24, 28, 30, 38
SN	DBV	SOT-23	5
SQ	DCK	SC-70	5
ST	DCY	SOT-223	4
T, T3	KC	TO-220	3
TD	KTP*	DPAK (TO-252)	3
Z	LP, LPM	TO-92	3
R# suffix (R2, RA)	R suffix	Tape & Reel	
T# suffix (T1, T3)	R suffix	Tape & Reel	
EL, 1, 2, 3 suffixes	R suffix	Tape & Reel	

\*Denotes one-way compatibility: TI package CAN fit on competitor's land pattern but not vice versa

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>PHILIPS</b>			
D, D8	D	SOIC	8, 14, 16
D	DW	SOIC Wide (SOWB)	16, 20, 24, 28
D	DBV	SOT23-5	5
DB	DW	SOIC Wide (SOWB)	16, 20, 24, 28
DB	DB	SSOP	14, 16, 20, 24, 28, 30, 38
DB	PW	TSSOP	8, 14, 16, 20, 24, 28
DCK	DCK	SC-70	5
DGG	DGG	TSSOP	48, 56, 64
DGV	DGV	TVSOP	14, 16, 20, 24, 48, 56
DH	PW	TSSOP	8, 14, 16, 20, 24, 28
DL	DL	SSOP	28, 48, 56
DT	PW	TSSOP	8, 14, 16, 20, 24, 28
GKE	GKE	LFPGA	96
GKF	GKF	LFPGA	114
GW	DBV	SOT23-5	5
GW	DCK	SC-70	5
H	DB	SSOP	14, 16, 20, 24, 28, 30, 38
N, NB	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
N, N2	NT	PDIP	24, 28
PN	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
PW	PW	TSSOP	8, 14, 16, 20, 24, 28
S	DW	SOIC Wide (SOWB)	16, 20, 24, 28
SDK	PW	TSSOP	8, 14, 16, 20, 24, 28
T, TD	D	SOIC	8, 14, 16
W	D	SOIC	8, 14, 16
T, G suffixes	R suffix	Tape & Reel	
<b>SEMTECH</b>			
5M	KTG*	TO-263	5
M	KTE*	TO-263	3
	KTG*	TO-263	5
M	D	SOIC	8, 14, 16
MS	DGK	MSOP	8
	DGS	MSOP	10
S	D	SOIC	8, 14, 16
S	DCY	SOT-223	4
S	KTG*	TO-263	5
SK	DBV	SOT-23	5
ST	DCY	SOT-223	4
T	KC	TO-220	3
Z	LP, LPM	TO-92	3
TR suffix	R suffix	Tape & Reel	

\*Denotes one-way compatibility: TI package CAN fit on competitor's land pattern but not vice versa

## Packaging Information and Cross-Reference by Manufacturer

Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>SIPEX</b>			
A	DB	SSOP	14, 16, 20, 24, 28, 30, 38
M3	DCY	SOT-223	4
N	D	SOIC	8, 14, 16
P	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
R	KTP*	DPAK (TO-252)	3
S, S1, S2	D	SOIC	8, 14, 16
T	DW	SOIC Wide (SOWB)	16, 20, 24, 28
T	D	SOIC	8, 14, 16
T	KTE*	TO-263	3
U	KC	TO-220	3
Y	PW	TSSOP	8, 14, 16, 20, 24, 28

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Competitor's Package	Equivalent TI Package	Package Type	Pin Count for TI Packages
<b>ST MICROELECTRONICS</b>			
D	D	SOIC	8, 14, 16
D2M	KTE*	D <sup>2</sup> PAK/A (TO-263)	3
DT	KTP*	DPAK (TO-252)	3
L	DBV	SOT23-5	5
M	DBV	SOT23-5	5
N	P	PDIP	8
	N	PDIP	14, 16, 20, 24, 28
P	PW	TSSOP	8, 14, 16, 20, 24, 28
S	DGK	MSOP	8
S	DCY	SOT-223	4
T	PW	TSSOP	8, 14, 16, 20, 24, 28
U	PK	SOT-89	3
V	KC	TO-220	3
W	DW	SOIC Wide (SOWB)	16, 20, 24, 28
Z	LP, LPM	TO-92	3
T, TR, T-R suffix	R suffix	Tape & Reel	
AP suffix	M suffix	Ammo pack	

\*Denotes one-way compatibility: TI package CAN fit on competitor's land pattern but not vice versa

TI Part Number Example

**LMV 393 A I D R**

Products	Prefix Options	Typical Device Number	Optional Suffix	Temperature Suffix Options	Package Suffix Options	Carrier Suffix Options
<b>Amplifiers and Comparators</b>	LF, LM, LMV, LP, LT, MC, NE, OP, RC, SE, TL, TLV, UA	324	A, B	C, I, M	D, DB, DBV, DW, N, NS, P, PS, PW	R
<b>Data Transmission Products and Peripheral Drivers</b>	AM, LT, MAX, SN, TL, UA, ULN	75LPE185	A, B	C, I, M	D, DB, DGG, DL, DW, N, NS, NT, P, PM, PS, PW	R
<b>Voltage Regulators and References</b>	LM, LT, MC, SG, TL, TLV, UA, UC	431	A	C, I, M	D, DB, DBV, DW, KC, KTE, KTG, KTP, LP, N, NS, P, PK, PS, PW	R

### Temperature Suffix Definitions

Some temperature suffixes have alternative temperature ranges.  
 C = 0 to 70°C (Commercial)      M = -55 to 125°C (Military)  
 I, E = -40 to 85°C (Industrial)

### Carrier Suffix Options

R = Available Taped-and-Reeled

## Notes

## Notes

## Notes



## Notes

# TI Worldwide Technical Support

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