- Three-State Outputs Interface Directly with System Bus
- 'LS257B and 'LS258B Offer Three Times the Sink-Current Capability of the Original 'LS257 and 'LS258
- Same Pin Assignments as SN54LS157, SN74LS157, SN54S157, SN74S157, and SN54LS158, SN74LS158, SN54S158, SN74S158
- Provides Bus Interface from Multiple Sources in High-Performance Systems

	AVERAGE PROPAGATION	TYPICAL
	DELAY FROM	POWER
	DATA INPUT	DISSIPATIONT
'LS257B	9 ns	55 mW
'LS258B	9 ns	55 mW
'S257	4.8 ns	320 mW
'S258	4 ns	280 mW

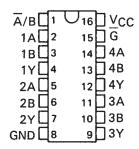
[†]Off state (worst case)

description

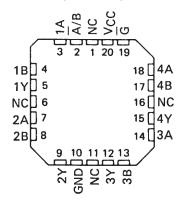
These devices are designed to multiplex signals from four-bit data sources to four-output data lines in busorganized systems. The 3-state outputs will not load the data lines when the output control pin (\overline{G}) is at a high-logic level.

Series 54LS and 54S are characterized for operation over the full military temperature range of -55° C to 125°C; Series 74LS and 74S are characterized for operation from 0°C to 70°C.

SN54LS257B, SN54S257, SN54LS258B, SN54S258 . . . J OR W PACKAGE SN74LS257B, SN74S257, SN74LS258B, SN74S258 . . . D OR N PACKAGE (TOP VIEW)



SN54LS257B, SN54S257, SN54LS258B, SN54S258 . . . FK PACKAGE (TOP VIEW)



NC-No internal connection.

FUNCTION TABLE

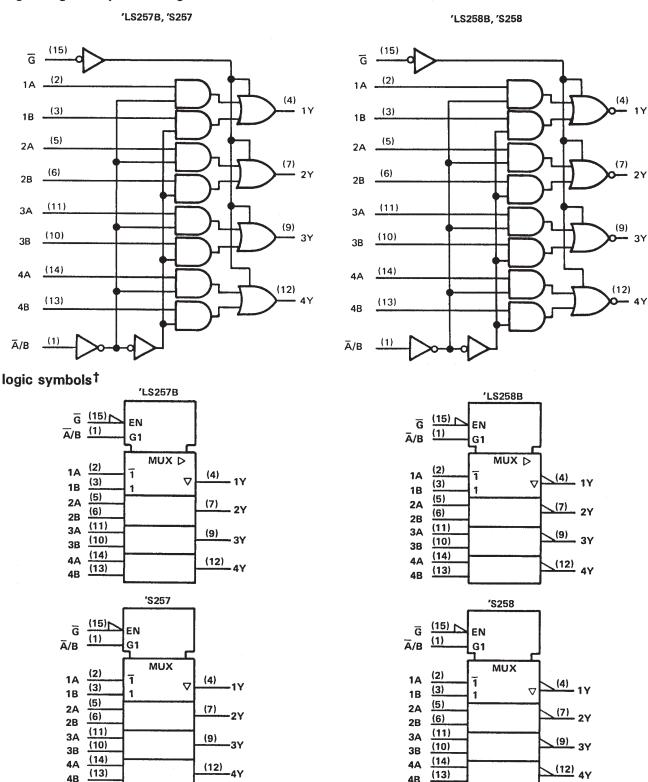
	INPUTS			OUTF	Y TU
OUTPUT CONTROL	SELECT	А	В	'LS257B 'S257	'LS258B 'S258
Н	Х	Х	Х	Z	Z
L	L,	L	Х	L	Н
L.	L	Н	Х	Н	L
L	Н	Х	L.	L	Н
L	Н	Х	Н	Н	L

H = high level, L = low level, X = irrelevant,

Z = high impedance (off)



logic diagrams (positive logic)



[†]These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, N, and W packages.

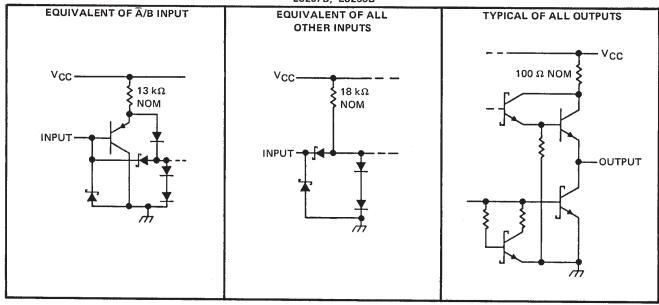


(13)

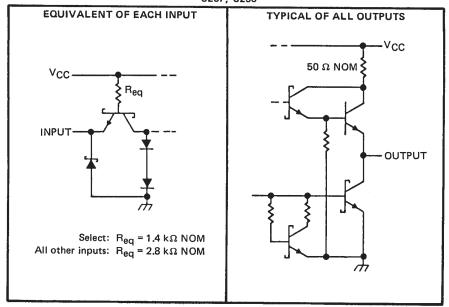
(13)4B

schematics of inputs and outputs

'LS257B, 'LS258B



'S257, 'S258



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

Supply voltage, VCC (see Note 1)	
Input voltage: 'LS257B, 'LS258B Circuits	
'S257, 'S258 Circuits	5.5 V
Off-state output voltage	5.5 V
Operating free-air temperature range: SN54LS', SN54S' Circuits	
SN74LS', SN74S' Circuits	
Storage temperature range	

NOTE 1: Voltage values are with respect to network ground terminal.



SN54LS257B, SN54LS258B, SN54S257, SN54S258 SN74LS257B, SN74LS258B, SN74S257, SN74S258 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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recommended operating conditions

			SN54LS	s′	SN74LS'			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNII
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	V
VIH	High-level input voltage	2			2			V
VIL	Low-level input voltage			0.7			0.8	V
IOH	High-level output current		· ··	– 1	<u> </u>		- 2.6	mA
loL	Low-level output current			12			24	mA
TA	Operating free-air temperature	- 55		125	0		70	°C

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

	PARAMETER	TE	ST CONDITION	ust		SN54LS	3'		SN74LS	3'	
		•	ST CONDITION	40.	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT
VIK		V _{CC} = MIN,	1 ₁ = 18 mA				- 1.5			- 1.5	V
V _{OH}		V _{CC} = MIN, I _{OH} = MAX	V _{IH} = 2 V,	VIL = MAX,	2.4	3.4		2.4	3.1	, ,	٧
VOL		VCC = MIN,	V _{IH} = 2 V,	I _{OL} = 12 mA		0.25	0.4		0.25	0.4	<u> </u>
-02		VIL = MAX,		I _{OL} = 24 mA		***************************************			0.35	0.5	٧
lozh		V _{CC} = MAX,	V _{IH} = 2 V,	V _O = 2.7 V			20			20	μΑ
lozL		V _{CC} - MAX,	$V_{1H} = 2 V$	V _O = 0.4 V			20			- 20	μΑ
11		V _{CC} = MAX,	V1 = 7 V				0.1			0.1	mA
ΊΗ		V _{CC} = MAX,	V1 = 2.7 V				20			20	μΑ
l _I L_		V _{CC} = MAX,	V _I = 0.4 V				- 0.4			- 0.4	mA
los §		V _{CC} = MAX,			- 30		- 130	- 30		- 130	mA
	All outputs high					8	12		8	12	
	All outputs low			'LS257B		12	18		12	18	1
loo	All outputs off	VMAY	Can Nata O			13	19		13	19	1
Icc	All outputs high	$V_{CC} = MAX$,	See NOTE 2			6	9		6	9	mA
	All outputs low			'LS258B		10	15		10	15	1
	All outputs off					11	16		11	16	1

[†] For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. ‡ All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}C$.

switching characteristics, $V_{CC} = 5 \text{ V}$, $T_{A} = 25^{\circ}\text{C}$. $R_{I} = 667 \Omega$

PARAMETER	FROM	то	TEST CON		'LS257	В		'LS258	В		
TATION ETER	(INPUT)	(OUTPUT)	1231 001	TEST CONDITIONS			MAX	MIN	TYP	MAX	UNIT
^t PLH	Data	Any				8	13		7	12	
^t PHL	Data	Ally				10	15		11	17	ns
^t PLH	Select	Any	C _L = 45 pF,	See Note 3		16	21		14	21	
tpHL			C[- 45 pr,	See Note S		17	24		19	24	ns
^t PZH	Output	Any			-	15	30		15	30	
^t PZL	Control	City				19	30		20	30	ns
^t PHZ	Output	Any	C. = 5 nE	Son Note 2		18	30		18	30	
^t PLZ	Control		C _L = 5 pF,	See Note 3		16	25		16	25	ns

¶tpLH = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

tpzH = output enable time to high level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

tpzL = output enable time to low level

tpHZ = output disable time from high level

tpLZ = output disable time from low level



[§]Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: ICC is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

recommended operating conditions

		SN54S'			SN745	UNIT	
	MIN	NOM	MAX	MIN	NOM	MAX	CIVIT
Supply voltage, V _{CC}	4.5	5	5.5	4.75	5	5.25	٧
High-level output current, IOH			-2			6.5	mA
Low-level output current, IOL			20			20	mA
Operating free-air temperature, TA	55		125	0		70	°C

electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

							'S257			'S258		UNIT
	PARAME'	TER	TEST	CONDITIONS ¹	ī	MIN	TYP [‡]	MAX	MIN	TYP [‡]	MAX	UNIT
VIH	High-level input	voltage				2			2			V
VIL	Low-level input						., .	0.8			0.8	V
VIK	Input clamp voltage		V _{CC} = MIN,	I _I = -18 mA				1.2			-1.2	V
			V _{CC} = MIN, V _{IL} = 0.8 V,	V _{IH} = 2 V, I _{OH} = -1 mA	SN745'	2.7			2.7			v
VOH	High-level outpu	it voltage	V _{CC} = MIN,	V _{IH} = 2 V,	SN54S'	2.4	3.4		2.4	3.4		,
			$V_{IL} = 0.8 V$,	IOH = MAX	SN74S'	2.4	3.2		2.4	3.2		
VOL	Low-level outpu	ıt voltage	V _{CC} = MIN, V _{IL} = 0.8 V,	V _{1H} = 2 V, I _{OL} = 20 mA				0.5			0.5	٧
lozh	Off-state output	· ·	V _{CC} = MAX, V _O = 2.4 V	V _{IH} = 2 V,				50			50	μА
lozL	Off-state output	· ·	V _{CC} = MAX, V _O = 0.5 V	V _{IH} = 2 V,				-50			-50	μА
l ₁	Input current a	t maximum	V _{CC} = MAX,	V _I = 5.5 V	.,,.			1			1	mA
	High-level	Sinput		07.1				100			100	μΑ
۱нн	input current	Any other	V _{CC} = MAX,	, V ₁ = 2.7 V				50			50] "
	Low-level	S input		0.5.1/				-4			-4	mA
11L	input current	Any other	V _{CC} = MAX	V I = 0.5 V				-2			-2	
los	Short-circuit output current §		V _{CC} = MAX			-40		-100	-40		-100	mA
		All outputs high					44	68		36	56	1
ICC	Supply current	All outputs low	VCC = MAX	, See Note 2			60	93		52	81	mA
		All outputs off]				64	99		56	87	

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

switching characteristics, VCC = 5 V, $TA = 25^{\circ}\text{C}$, $RL = 280 \Omega$

	FROM	то	TEST		'S257			'S258		UNIT
PARAMETER¶	(INPUT)	(OUTPUT)	CONDITIONS	MIN	TYP	MAX	MIN	TYP	MAX	DIVIT
tPLH t	5 .	A			5	7.5		4	6	ns
tPHL tPHL	Data	Any			4.5	6.5		4	6	<u> </u>
tPLH	0.1	A	$C_L = 15 pF$,		8.5	15		8	12	ns
tPHL	Select	Any	See Note 3		8.5	15		7.5	12	113
tPZH	Output				13	19.5		13	19.5	ns
tPZL	Control	Any			14	21		14	21	1 113
tPHZ	Output	_	$C_L = 5 pF$,		5.5	8.5		5.5	8.5	
t _{PLZ}	Control	Any	See Note 3		9	14		9	14	ns

[¶]f_{max} = Maximum clock frequency

 $t_{PZL} \equiv$ output enable time to low level $t_{PHZ} \equiv$ output disable time from high level





[‡]All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25 ^{\circ}\text{C}$.

Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: ICC is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

tpLH = propagation delay time, low-to-high-level output

tpHL = propagation delay time, high-to-low-level output

tpZH = output enable time to high level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

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PACKAGING INFORMATION

Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
7603701EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701EA SNJ54LS257BJ
7603701FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
7603701FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
7603801EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
7603801EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
8002301EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J
8002301EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J
8002301FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W
8002301FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W
JM38510/07906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
JM38510/07906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
JM38510/07906BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
JM38510/07906BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
JM38510/07906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA
JM38510/07906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA
JM38510/07906BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA





Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	(3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
JM38510/07906BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA
JM38510/30906B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
JM38510/30906B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
JM38510/30906B2A.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
JM38510/30906B2A.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
JM38510/30906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
JM38510/30906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
JM38510/30906BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
JM38510/30906BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
JM38510/30906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
JM38510/30906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
JM38510/30906BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
JM38510/30906BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
M38510/07906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
M38510/07906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BEA
M38510/07906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA
M38510/07906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07906BFA





Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
M38510/30906B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
M38510/30906B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906B2A
M38510/30906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
M38510/30906BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BEA
M38510/30906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
M38510/30906BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30906BFA
SN54LS257BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS257BJ
SN54LS257BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS257BJ
SN54LS257BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS257B
SN54LS257BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS257B
SN54LS258BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS258B
SN54LS258BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS258B
SN54LS258BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS258B
SN54LS258BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS258B
SN54S257J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S257J
SN54S257J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S257J
SN54S257J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S257J
SN54S257J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S257J
SN74LS257BD	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS257B
SN74LS257BD	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS257B
SN74LS257BDR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS257B
SN74LS257BDR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS257B
SN74LS257BDR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS257B
SN74LS257BDR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS257B
SN74LS257BN	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS257BN
SN74LS257BN	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS257BN





Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SN74LS257BN.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS257BN
SN74LS257BN.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS257BN
SN74LS257BNSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS257B
SN74LS257BNSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS257B
SN74LS257BNSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS257B
SN74LS257BNSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS257B
SN74LS258BD	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS258B
SN74LS258BD	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS258B
SN74LS258BDR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS258B
SN74LS258BDR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS258B
SN74LS258BDR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS258B
SN74LS258BDR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS258B
SN74LS258BN	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS258BN
SN74LS258BN	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS258BN
SN74LS258BN.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS258BN
SN74LS258BN.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS258BN
SN74S257N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74S257N
SN74S257N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74S257N
SN74S257N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74S257N
SN74S257N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74S257N
SNJ54LS257BFK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54LS 257BFK
SNJ54LS257BFK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54LS 257BFK
SNJ54LS257BFK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54LS 257BFK
SNJ54LS257BFK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54LS 257BFK
SNJ54LS257BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701EA SNJ54LS257BJ
SNJ54LS257BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701EA SNJ54LS257BJ





Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SNJ54LS257BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701EA SNJ54LS257BJ
SNJ54LS257BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701EA SNJ54LS257BJ
SNJ54LS257BW	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
SNJ54LS257BW	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
SNJ54LS257BW.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
SNJ54LS257BW.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603701FA SNJ54LS257BW
SNJ54LS258BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
SNJ54LS258BJ	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
SNJ54LS258BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
SNJ54LS258BJ.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603801EA SNJ54LS258BJ
SNJ54S257J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257J
SNJ54S257J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257J
SNJ54S257J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257J
SNJ54S257J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257J
SNJ54S257W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257W
SNJ54S257W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257W
SNJ54S257W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257W
SNJ54S257W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S257W
SNJ54S258J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J
SNJ54S258J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J
SNJ54S258J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J





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Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SNJ54S258J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301EA SNJ54S258J
SNJ54S258W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W
SNJ54S258W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W
SNJ54S258W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W
SNJ54S258W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8002301FA SNJ54S258W

⁽¹⁾ Status: For more details on status, see our product life cycle.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

PACKAGE OPTION ADDENDUM

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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF SN54LS257B, SN54LS258B, SN54S257, SN74LS257B, SN74LS258B, SN74S257:

Catalog: SN74LS257B, SN74LS258B, SN74S257

• Military: SN54LS257B, SN54LS258B, SN54S257

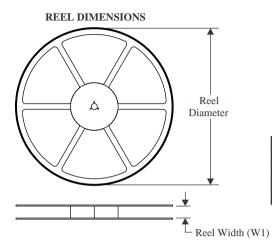
NOTE: Qualified Version Definitions:

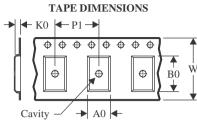
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

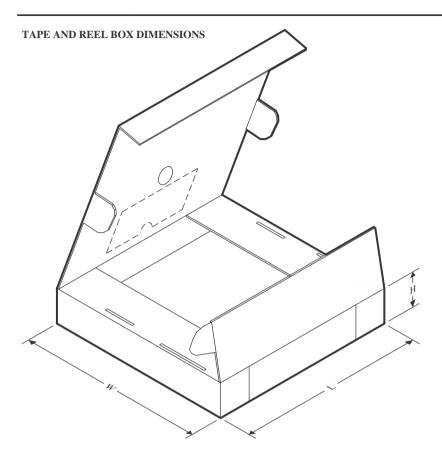
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LS257BDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74LS257BNSR	SOP	NS	16	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1
SN74LS258BDR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1

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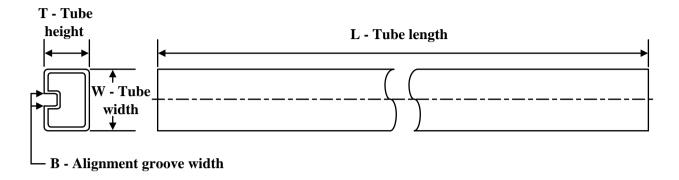
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LS257BDR	SOIC	D	16	2500	340.5	336.1	32.0
SN74LS257BNSR	SOP	NS	16	2000	353.0	353.0	32.0
SN74LS258BDR	SOIC	D	16	2500	353.0	353.0	32.0



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TUBE

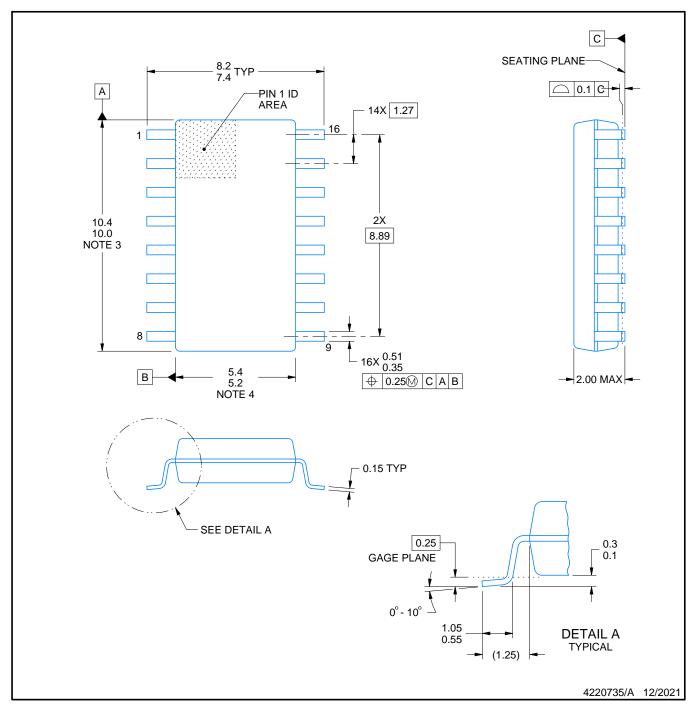


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
7603701FA	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/07906BFA	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/07906BFA.A	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/30906B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/30906B2A.A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/30906BFA	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/30906BFA.A	W	CFP	16	25	506.98	26.16	6220	NA
M38510/07906BFA	W	CFP	16	25	506.98	26.16	6220	NA
M38510/30906B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
M38510/30906BFA	W	CFP	16	25	506.98	26.16	6220	NA
SN74LS257BN	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS257BN	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS257BN.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS257BN.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS258BN	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS258BN	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS258BN.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS258BN.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74S257N	N	PDIP	16	25	506	13.97	11230	4.32
SN74S257N	N	PDIP	16	25	506	13.97	11230	4.32
SN74S257N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74S257N.A	N	PDIP	16	25	506	13.97	11230	4.32
SNJ54LS257BFK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS257BFK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS257BW	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54LS257BW.A	W	CFP	16	25	506.98	26.16	6220	NA



SOP



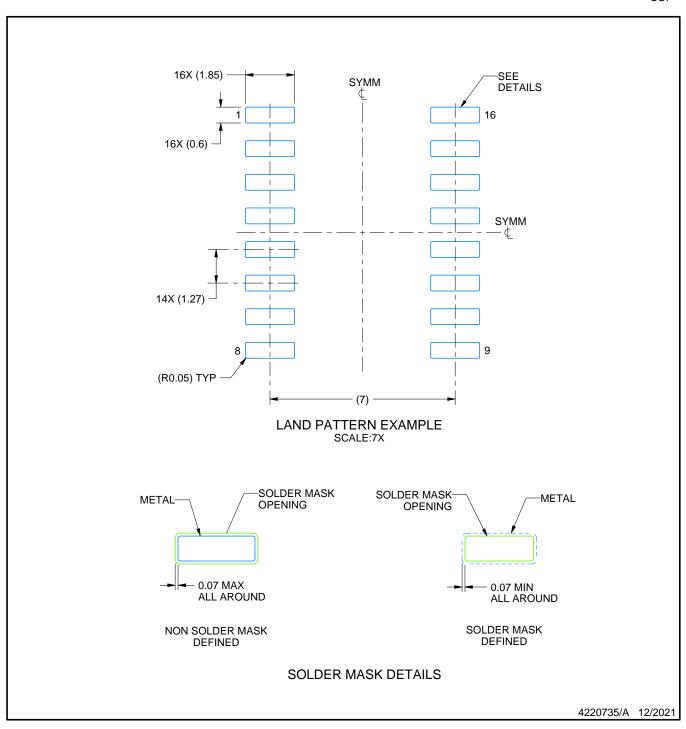
- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing
- per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm, per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm, per side.



SOF

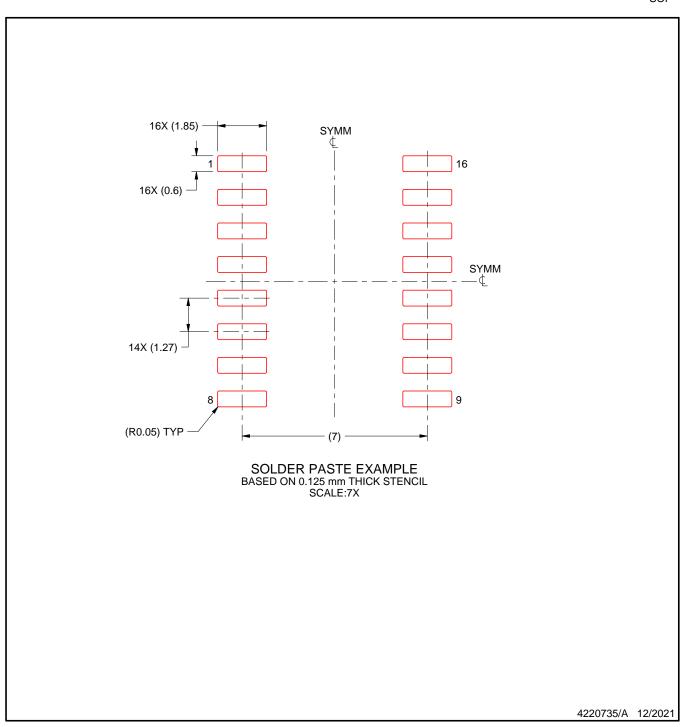


NOTES: (continued)

- 5. Publication IPC-7351 may have alternate designs.
- 6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SOF



NOTES: (continued)

- 7. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 8. Board assembly site may have different recommendations for stencil design.



D (R-PDS0-G16)

PLASTIC SMALL OUTLINE

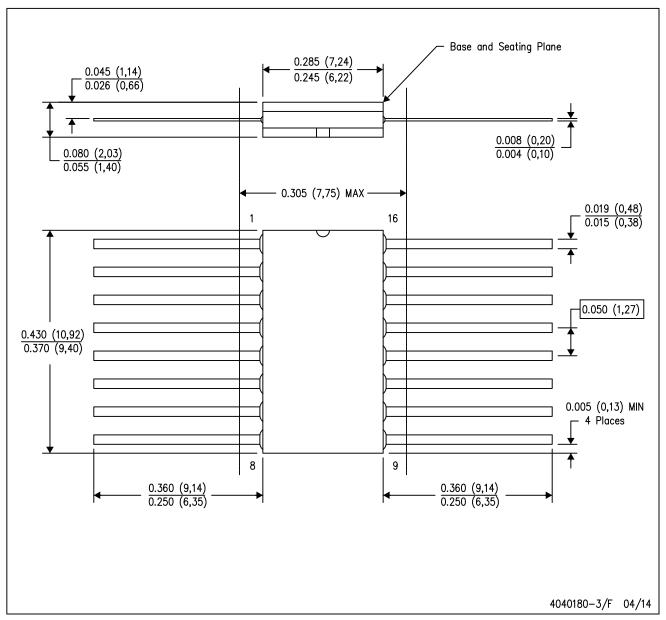


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



W (R-GDFP-F16)

CERAMIC DUAL FLATPACK



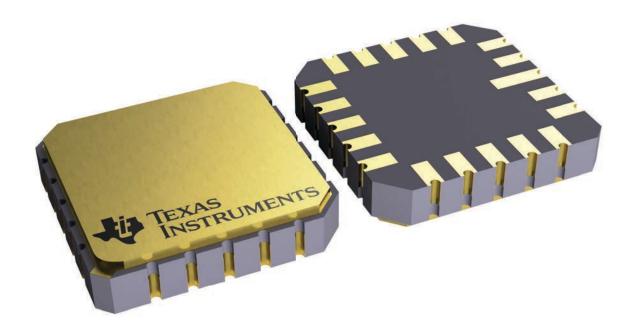
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP2-F16



8.89 x 8.89, 1.27 mm pitch

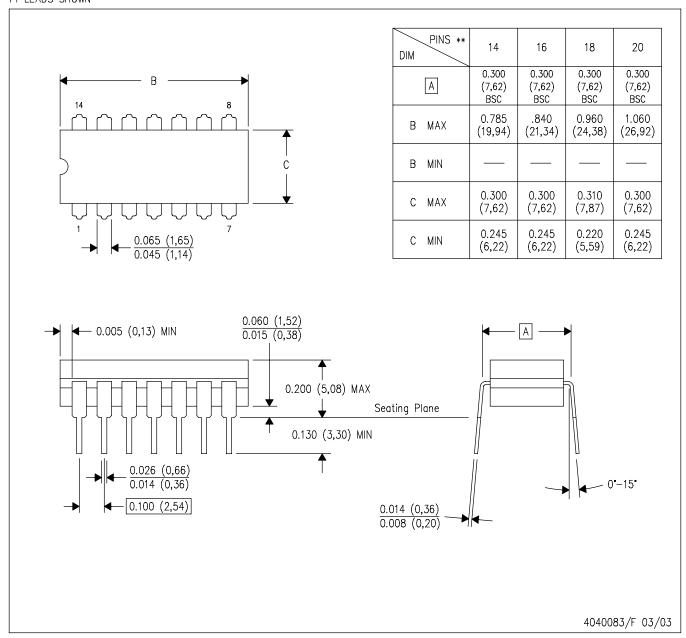
LEADLESS CERAMIC CHIP CARRIER

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.



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14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



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