

**PACKAGING INFORMATION**

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TMS320F28030PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28030PAGQ TMS320	<a href="#">Samples</a>
TMS320F28030PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28030PAGS TMS320	<a href="#">Samples</a>
TMS320F28030PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28030PAGT TMS320	<a href="#">Samples</a>
TMS320F28030PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28030PNQ TMS320	<a href="#">Samples</a>
TMS320F28030PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28030PNS TMS320	<a href="#">Samples</a>
TMS320F28030PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28030PNT TMS320	<a href="#">Samples</a>
TMS320F28030RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28030RSHS S320 980	<a href="#">Samples</a>
TMS320F28030RSHT	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28030RSHT S320 980	<a href="#">Samples</a>
TMS320F28031PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28031PAGQ TMS320	<a href="#">Samples</a>
TMS320F28031PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28031PAGS TMS320	<a href="#">Samples</a>
TMS320F28031PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28031PAGT TMS320	<a href="#">Samples</a>
TMS320F28031PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28031PNQ TMS320	<a href="#">Samples</a>
TMS320F28031PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28031PNS TMS320	<a href="#">Samples</a>
TMS320F28031PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28031PNT TMS320	<a href="#">Samples</a>
TMS320F28031RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28031RSHS S320 980	<a href="#">Samples</a>
TMS320F28032PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28032PAGQ TMS320	<a href="#">Samples</a>
TMS320F28032PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28032PAGS	<a href="#">Samples</a>

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
										TMS320	
TMS320F28032PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28032PAGT TMS320	<a href="#">Samples</a>
TMS320F28032PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28032PNQ TMS320	<a href="#">Samples</a>
TMS320F28032PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28032PNS TMS320	<a href="#">Samples</a>
TMS320F28032PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28032PNT TMS320	<a href="#">Samples</a>
TMS320F28032PNTR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28032PNT TMS320	<a href="#">Samples</a>
TMS320F28032RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28032RSHS S320 980	<a href="#">Samples</a>
TMS320F28032RSHT	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28032RSHT S320 980	<a href="#">Samples</a>
TMS320F28033P1PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033PAGS TMS320	<a href="#">Samples</a>
TMS320F28033PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033PAGQ TMS320	<a href="#">Samples</a>
TMS320F28033PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033PAGS TMS320	<a href="#">Samples</a>
TMS320F28033PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28033PAGT TMS320	<a href="#">Samples</a>
TMS320F28033PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033PNQ TMS320	<a href="#">Samples</a>
TMS320F28033PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033PNS TMS320	<a href="#">Samples</a>
TMS320F28033PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28033PNT TMS320	<a href="#">Samples</a>
TMS320F28033RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28033RSHS S320 980	<a href="#">Samples</a>
TMS320F28034PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034PAGQ TMS320	<a href="#">Samples</a>
TMS320F28034PAGQR	ACTIVE	TQFP	PAG	64	1500	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034PAGQ TMS320	<a href="#">Samples</a>

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TMS320F28034PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034PAGS TMS320	<a href="#">Samples</a>
TMS320F28034PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28034PAGT TMS320	<a href="#">Samples</a>
TMS320F28034PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034PNQ TMS320	<a href="#">Samples</a>
TMS320F28034PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034PNS TMS320	<a href="#">Samples</a>
TMS320F28034PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28034PNT TMS320	<a href="#">Samples</a>
TMS320F28034PNTR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28034PNT TMS320	<a href="#">Samples</a>
TMS320F28034RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28034RSHS S320 980	<a href="#">Samples</a>
TMS320F28034RSHT	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28034RSHT S320 980	<a href="#">Samples</a>
TMS320F28035PAGQ	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035PAGQ TMS320	<a href="#">Samples</a>
TMS320F28035PAGS	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035PAGS TMS320	<a href="#">Samples</a>
TMS320F28035PAGT	ACTIVE	TQFP	PAG	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28035PAGT TMS320	<a href="#">Samples</a>
TMS320F28035PAGTR	ACTIVE	TQFP	PAG	64	1500	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28035PAGT TMS320	<a href="#">Samples</a>
TMS320F28035PNQ	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035PNQ TMS320	<a href="#">Samples</a>
TMS320F28035PNQR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035PNQ TMS320	<a href="#">Samples</a>
TMS320F28035PNS	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035PNS TMS320	<a href="#">Samples</a>
TMS320F28035PNT	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28035PNT TMS320	<a href="#">Samples</a>
TMS320F28035PNTR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28035PNT TMS320	<a href="#">Samples</a>
TMS320F28035RSHS	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28035RSHS	<a href="#">Samples</a>

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TMS320F28035RSHT	ACTIVE	VQFN	RSH	56	260	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	S320 980 F28035RSHT S320 980	<a href="#">Samples</a>

(1) The marketing status values are defined as follows:

**ACTIVE:** Product device recommended for new designs.

**LIFEBUY:** TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

**NRND:** Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

**PREVIEW:** Device has been announced but is not in production. Samples may or may not be available.

**OBSOLETE:** TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

**RoHS Exempt:** TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

**Green:** TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=100ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

(6) Lead finish/Ball material - Orderable Devices 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.

**Important Information and Disclaimer:**The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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 TMS320F28030, TMS320F28030-Q1, TMS320F28031, TMS320F28031-Q1, TMS320F28032, TMS320F28032-Q1, TMS320F28033, TMS320F28033-Q1, TMS320F28034, TMS320F28034-Q1, TMS320F28035, TMS320F28035-Q1 :**

- Catalog : [TMS320F28030](#), [TMS320F28031](#), [TMS320F28032](#), [TMS320F28033](#), [TMS320F28034](#), [TMS320F28035](#)
- Automotive : [TMS320F28030-Q1](#), [TMS320F28031-Q1](#), [TMS320F28032-Q1](#), [TMS320F28033-Q1](#), [TMS320F28034-Q1](#), [TMS320F28035-Q1](#)
- Enhanced Product : [TMS320F28035-EP](#), [TMS320F28035-EP](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product - Supports Defense, Aerospace and Medical Applications