

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TMS320F28050PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28050PNS TMS320
TMS320F28050PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28050PNS TMS320
TMS320F28050PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28050PNS TMS320
TMS320F28051PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28051PNS TMS320
TMS320F28051PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28051PNS TMS320
TMS320F28051PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28051PNS TMS320
TMS320F28051PNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28051PNT TMS320
TMS320F28051PNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28051PNT TMS320
TMS320F28051PNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28051PNT TMS320
TMS320F28052FPNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052FPNQ TMS320
TMS320F28052FPNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052FPNQ TMS320
TMS320F28052FPNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052FPNT TMS320
TMS320F28052FPNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052FPNT TMS320
TMS320F28052FPNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052FPNT TMS320
TMS320F28052MPNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052MPNQ TMS320
TMS320F28052MPNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052MPNQ TMS320

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TMS320F28052MPNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052MPNT TMS320
TMS320F28052MPNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052MPNT TMS320
TMS320F28052MPNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052MPNT TMS320
TMS320F28052PNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052PNQ TMS320
TMS320F28052PNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052PNQ TMS320
TMS320F28052PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052PNS TMS320
TMS320F28052PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052PNS TMS320
TMS320F28052PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28052PNS TMS320
TMS320F28052PNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052PNT TMS320
TMS320F28052PNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052PNT TMS320
TMS320F28052PNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28052PNT TMS320
TMS320F28053PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28053PNS TMS320
TMS320F28053PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28053PNS TMS320
TMS320F28053PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28053PNS TMS320
TMS320F28054FPNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054FPNQ TMS320
TMS320F28054FPNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054FPNQ TMS320
TMS320F28054FPNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054FPNT TMS320

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TMS320F28054FPNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054FPNT TMS320
TMS320F28054FPNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054FPNT TMS320
TMS320F28054MPNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054MPNQ TMS320
TMS320F28054MPNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054MPNQ TMS320
TMS320F28054MPNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054MPNT TMS320
TMS320F28054MPNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054MPNT TMS320
TMS320F28054MPNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28054MPNT TMS320
TMS320F28054PNQ	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054PNQ TMS320
TMS320F28054PNQ.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054PNQ TMS320
TMS320F28054PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054PNS TMS320
TMS320F28054PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054PNS TMS320
TMS320F28054PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28054PNS TMS320
TMS320F28055PNS	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28055PNS TMS320
TMS320F28055PNS.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28055PNS TMS320
TMS320F28055PNS.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 125	F28055PNS TMS320
TMS320F28055PNT	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28055PNT TMS320
TMS320F28055PNT.A	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28055PNT TMS320

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TMS320F28055PNT.B	Active	Production	LQFP (PN) 80	119 JEDEC TRAY (5+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 105	F28055PNT TMS320

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

⁽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.

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.

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 TMS320F28052, TMS320F28052-Q1, TMS320F28052F, TMS320F28052F-Q1, TMS320F28052M, TMS320F28052M-Q1, TMS320F28054, TMS320F28054-Q1, TMS320F28054F, TMS320F28054F-Q1, TMS320F28054M, TMS320F28054M-Q1 :

● Catalog : [TMS320F28052](#), [TMS320F28052F](#), [TMS320F28052M](#), [TMS320F28054](#), [TMS320F28054F](#), [TMS320F28054M](#)

● Automotive : [TMS320F28052-Q1](#), [TMS320F28052F-Q1](#), [TMS320F28052M-Q1](#), [TMS320F28054-Q1](#), [TMS320F28054F-Q1](#), [TMS320F28054M-Q1](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects