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
TMS320F28015NMFA	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F28015NMFA	Samples
TMS320F28015PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F28015PZA TMS	Samples
TMS320F28015PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F28015PZS TMS	Samples
TMS320F28015PZSR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F28015PZS TMS	Samples
TMS320F28016PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F28016PZA TMS	Samples
TMS320F28016PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F28016PZQ TMS	Samples
TMS320F28016PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F28016PZS TMS	Samples
TMS320F2801NMFA	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F2801NMFA	Samples
TMS320F2801PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2801PZA TMS	Samples
TMS320F2801PZA-60	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2801PZA-60 TMS	Samples
TMS320F2801PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2801PZQ TMS	Samples
TMS320F2801PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2801PZS TMS	Samples
TMS320F2801PZS-60	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2801PZS-60 TMS	Samples
TMS320F2802PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2802PZA TMS	Samples
TMS320F2802PZA-60	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2802PZA-60 TMS	Samples
TMS320F2802PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2802PZQ TMS	Samples
TMS320F2802PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2802PZS	Samples

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
										TMS	
TMS320F2802PZS-60	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2802PZS-60 TMS	Samples
TMS320F2806NMFA	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F2806NMFA	Samples
TMS320F2806NMFAR	ACTIVE	NFBGA	NMF	100	1000	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F2806NMFA	Samples
TMS320F2806NMFS	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 125	TMS320 F2806NMFS	Samples
TMS320F2806PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2806PZA TMS	Samples
TMS320F2806PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2806PZQ TMS	Samples
TMS320F2806PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2806PZS TMS	Samples
TMS320F2808GBAA	ACTIVE	NFBGA	GBA	100	184	Non-RoHS & Green	SNPB	Level-3-220C-168 HR	-40 to 85	TMS320 F2808GBAA	Samples
TMS320F2808GBAS	ACTIVE	NFBGA	GBA	100	184	Non-RoHS & Green	SNPB	Level-3-220C-168 HR	-40 to 125	TMS320 F2808GBAS	Samples
TMS320F2808NMFA	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F2808NMFA	Samples
TMS320F2808NMFS	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 125	TMS320 F2808NMFS	Samples
TMS320F2808PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2808PZA TMS	Samples
TMS320F2808PZAR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2808PZA TMS	Samples
TMS320F2808PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2808PZQ TMS	Samples
TMS320F2808PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2808PZS TMS	Samples
TMS320F2809NMFA	ACTIVE	NFBGA	NMF	100	184	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	TMS320 F2809NMFA	Samples
TMS320F2809PZA	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	320F2809PZA TMS	Samples

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
TMS320F2809PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	320F2809PZS TMS	Samples

(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 <=1000ppm 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 TMS320F2801, TMS320F2801-Q1, TMS320F28016, TMS320F28016-Q1, TMS320F2802, TMS320F2802-Q1, TMS320F2806, TMS320F2806-Q1, TMS320F2808, TMS320F2808-Q1, TMS320F2809 :

- Catalog : TMS320F2801, TMS320F28016, TMS320F2802, TMS320F2806, TMS320F2808
- Automotive : TMS320F2801-Q1, TMS320F28016-Q1, TMS320F2802-Q1, TMS320F2806-Q1, TMS320F2808-Q1, TMS320F2809-Q1

NOTE: Qualified Version Definitions:

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