

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
F280040CPMQR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280040CPMQ	Samples
F280040PMQR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280040PMQ	Samples
F280041CPMS	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041CPMS	Samples
F280041CPZQR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041CPZQ	Samples
F280041CPZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041CPZS	Samples
F280041CRSHSR	ACTIVE	VQFN	RSH	56	2500	RoHS & Green	Call TI NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041C RSHS	Samples
F280041PMS	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041PMS	Samples
F280041PMSR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041PMS	Samples
F280041PZQR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041PZQ	Samples
F280041PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041PZS	Samples
F280041PZSR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041PZS	Samples
F280041RSHSR	ACTIVE	VQFN	RSH	56	2500	RoHS & Green	Call TI NIPDAU	Level-3-260C-168 HR	-40 to 125	F280041 RSHS	Samples
F280045PMS	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280045PMS	Samples
F280045PMSR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280045PMS	Samples
F280045PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280045PZS	Samples
F280045PZSR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280045PZS	Samples
F280045RSHSR	ACTIVE	VQFN	RSH	56	2500	RoHS & Green	Call TI NIPDAU	Level-3-260C-168 HR	-40 to 125	F280045 RSHS	Samples
F280048CPMQR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280048CPMQ	Samples
F280048PMQR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280048PMQ	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
F280049CPMS	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049CPMS	Samples
F280049CPMSR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049CPMS	Samples
F280049CPZQR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049CPZQ	Samples
F280049CPZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049CPZS	Samples
F280049CRSHSR	ACTIVE	VQFN	RSH	56	2500	RoHS & Green	Call TI NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049C RSHS	Samples
F280049PMS	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PMS	Samples
F280049PMSR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PMS	Samples
F280049PZQ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PZQ	Samples
F280049PZQR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PZQ	Samples
F280049PZS	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PZS	Samples
F280049PZSR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049PZS	Samples
F280049RSHSR	ACTIVE	VQFN	RSH	56	2500	RoHS & Green	Call TI NIPDAU	Level-3-260C-168 HR	-40 to 125	F280049 RSHS	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.

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OTHER QUALIFIED VERSIONS OF TMS320F280041, TMS320F280041-Q1, TMS320F280041C, TMS320F280041C-Q1, TMS320F280049, TMS320F280049-Q1, TMS320F280049C, TMS320F280049C-Q1 :

● Catalog : [TMS320F280041](#), [TMS320F280041C](#), [TMS320F280049](#), [TMS320F280049C](#)

● Automotive : [TMS320F280041-Q1](#), [TMS320F280041C-Q1](#), [TMS320F280049-Q1](#), [TMS320F280049C-Q1](#)

NOTE: Qualified Version Definitions:

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