

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
MSP430F2416TPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPMR	ACTIVE	LQFP	PM	64	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPN	ACTIVE	LQFP	PN	80	119	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPNR	ACTIVE	LQFP	PN	80	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TZCA	ACTIVE	NFBGA	ZCA	113	260	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2416T	Samples
MSP430F2416TZCAR	ACTIVE	NFBGA	ZCA	113	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2416T	Samples
MSP430F2416TZQW	LIFEBUY	BGA MICROSTAR JUNIOR	ZQW	113	260	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	0 to 0	M430F2416T	
MSP430F2416TZQWR	LIFEBUY	BGA MICROSTAR JUNIOR	ZQW	113	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	0 to 0	M430F2416T	
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MSP430F2418TPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2418T	Samples

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MSP430F2419TPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2419T	Samples
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(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 ≤ 1000 ppm threshold. Antimony trioxide based flame retardants must also meet the ≤ 1000 ppm 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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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 MSP430F2618 :

- Enhanced Product: [MSP430F2618-EP](#)

NOTE: Qualified Version Definitions:

- Enhanced Product - Supports Defense, Aerospace and Medical Applications