

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	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2416T	Samples
MSP430F2416TZCA	ACTIVE	NFBGA	ZCA	113	260	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2416T	Samples
MSP430F2416TZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2416T	Samples
MSP430F2416TZQW	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2416T	
MSP430F2417TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2417T	Samples
MSP430F2417TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2417T	Samples
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MSP430F2417TPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2417T	Samples
MSP430F2417TZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2417T	Samples
MSP430F2417TZQWR	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2417T	
MSP430F2418TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2418T	Samples
MSP430F2418TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2418T	Samples
MSP430F2418TPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2418T	Samples
MSP430F2418TPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2418T	Samples
MSP430F2418TZCA	ACTIVE	NFBGA	ZCA	113	260	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2418T	Samples

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MSP430F2418TZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2418T	Samples
MSP430F2419TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2419T	Samples
MSP430F2419TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2419T	Samples
MSP430F2419TPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2419T	Samples
MSP430F2419TPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2419T	Samples
MSP430F2419TZQWR	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2419T	
MSP430F2616TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2616T	Samples
MSP430F2616TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2616T	Samples
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MSP430F2616TZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2616T	Samples
MSP430F2616TZQWR	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2616T	
MSP430F2617TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2617T	Samples
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MSP430F2617TZQWR	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2617T	
MSP430F2618TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2618T	Samples
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MSP430F2619TPM	ACTIVE	LQFP	PM	64	160	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2619T REV #	Samples
MSP430F2619TPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2619T REV #	Samples
MSP430F2619TPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 105	M430F2619T	Samples
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MSP430F2619TZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 105	F2619T	Samples
MSP430F2619TZQWR	OBSOLETE	BGA MICROSTAR JUNIOR	ZQW	113		TBD	Call TI	Call TI	0 to 0	M430F2619T	

(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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