

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
MSP430F5418AIPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5418A	Samples
MSP430F5418AIPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5418A	Samples
MSP430F5419AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5419A	Samples
MSP430F5419AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5419A	Samples
MSP430F5419AIZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5419A	Samples
MSP430F5419AIZCAT	ACTIVE	NFBGA	ZCA	113	250	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5419A	Samples
MSP430F5435AIPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5435A	Samples
MSP430F5435AIPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5435A	Samples
MSP430F5436AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5436A	Samples
MSP430F5436AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5436A	Samples
MSP430F5436AIZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5436A	Samples
MSP430F5436AIZCAT	ACTIVE	NFBGA	ZCA	113	250	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5436A	Samples
MSP430F5437AIPN	ACTIVE	LQFP	PN	80	119	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5437A	Samples
MSP430F5437AIPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5437A	Samples
MSP430F5438AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5438A	Samples
MSP430F5438AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F5438A	Samples
MSP430F5438AIZCAR	ACTIVE	NFBGA	ZCA	113	2500	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5438A	Samples
MSP430F5438AIZCAT	ACTIVE	NFBGA	ZCA	113	250	RoHS & Green	SNAGCU	Level-3-260C-168 HR	-40 to 85	F5438A	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 MSP430F5438A :

- Enhanced Product : [MSP430F5438A-EP](#)

NOTE: Qualified Version Definitions:

- Enhanced Product - Supports Defense, Aerospace and Medical Applications