

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
MSP430F67451A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67451A	Samples
MSP430F67451A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67451A	Samples
MSP430F67451A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67451A	Samples
MSP430F67451A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67451A	Samples
MSP430F67461A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67461A	Samples
MSP430F67461A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67461A	Samples
MSP430F67461A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67461A	Samples
MSP430F67461A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67461A	Samples
MSP430F67471A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67471A	Samples
MSP430F67471A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67471A	Samples
MSP430F67471A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67471A	Samples
MSP430F67471A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67471A	Samples
MSP430F67481A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67481A	Samples
MSP430F67481A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67481A	Samples
MSP430F67481A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67481A	Samples
MSP430F67481A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67481A	Samples
MSP430F67491A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67491A	Samples
MSP430F67491A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67491A	Samples
MSP430F67491A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67491A	Samples
MSP430F67491A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67491A	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
MSP430F67651AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67651A	Samples
MSP430F67651AIEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67651A	Samples
MSP430F67651AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67651A	Samples
MSP430F67651AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67651A	Samples
MSP430F67661AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67661A	Samples
MSP430F67661AIEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67661A	Samples
MSP430F67661AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67661A	Samples
MSP430F67661AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67661A	Samples
MSP430F67671AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67671A	Samples
MSP430F67671AIEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67671A	Samples
MSP430F67671AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67671A	Samples
MSP430F67671AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67671A	Samples
MSP430F67681AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67681A	Samples
MSP430F67681AIEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67681A	Samples
MSP430F67681AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67681A	Samples
MSP430F67681AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67681A	Samples
MSP430F67691AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67691A	Samples
MSP430F67691AIEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67691A	Samples
MSP430F67691AIPZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67691A	Samples
MSP430F67691AIPZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67691A	Samples
MSP430F67751AIEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67751A	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
MSP430F67751A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67751A	Samples
MSP430F67751A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67751A	Samples
MSP430F67751A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67751A	Samples
MSP430F67761A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67761A	Samples
MSP430F67761A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67761A	Samples
MSP430F67761A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67761A	Samples
MSP430F67761A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67761A	Samples
MSP430F67771A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67771A	Samples
MSP430F67771A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67771A	Samples
MSP430F67771A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67771A	Samples
MSP430F67771A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67771A	Samples
MSP430F67781A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67781A	Samples
MSP430F67781A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67781A	Samples
MSP430F67781A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67781A	Samples
MSP430F67781A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67781A	Samples
MSP430F67791A1PEU	ACTIVE	LQFP	PEU	128	72	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67791A	Samples
MSP430F67791A1PEUR	ACTIVE	LQFP	PEU	128	750	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67791A	Samples
MSP430F67791A1PZ	ACTIVE	LQFP	PZ	100	90	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67791A	Samples
MSP430F67791A1PZR	ACTIVE	LQFP	PZ	100	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 85	F67791A	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 ≤ 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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