

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
MSP430FR5887IPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5887	Samples
MSP430FR5887IPMR	ACTIVE	LQFP	PM	64	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5887	Samples
MSP430FR5887IRGCR	ACTIVE	VQFN	RGC	64	2000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5887	Samples
MSP430FR5887IRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5887	Samples
MSP430FR5888IPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5888	Samples
MSP430FR5888IRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5888	Samples
MSP430FR58891IPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR58891	Samples
MSP430FR5889IPM	ACTIVE	LQFP	PM	64	160	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5889	Samples
MSP430FR5889IPMR	ACTIVE	LQFP	PM	64	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5889	Samples
MSP430FR5889IRGCR	ACTIVE	VQFN	RGC	64	2000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5889	Samples
MSP430FR5889IRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR5889	Samples
MSP430FR6887IPN	ACTIVE	LQFP	PN	80	119	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6887	Samples
MSP430FR6887IPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6887	Samples
MSP430FR6888IPN	ACTIVE	LQFP	PN	80	119	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6888	Samples
MSP430FR6888IPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6888	Samples
MSP430FR68891IPN	ACTIVE	LQFP	PN	80	119	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR68891	Samples
MSP430FR68891IPNR	ACTIVE	LQFP	PN	80	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR		FR68891	Samples

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
MSP430FR68891IPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR68891	Samples
MSP430FR68891IPZR	ACTIVE	LQFP	PZ	100	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR68891	Samples
MSP430FR68891IPN	ACTIVE	LQFP	PN	80	119	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6889	Samples
MSP430FR68891IPNR	ACTIVE	LQFP	PN	80	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6889	Samples
MSP430FR68891IPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 85	FR6889	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/Ball Finish - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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