

**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
MSP430F5131IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5131	<a href="#">Samples</a>
MSP430F5131IDAR	ACTIVE	TSSOP	DA	38	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5131	<a href="#">Samples</a>
MSP430F5131IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131	<a href="#">Samples</a>
MSP430F5131IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131	<a href="#">Samples</a>
MSP430F5131IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5131	<a href="#">Samples</a>
MSP430F5131IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5131	<a href="#">Samples</a>
MSP430F5132IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132	<a href="#">Samples</a>
MSP430F5132IDAR	ACTIVE	TSSOP	DA	38	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132	<a href="#">Samples</a>
MSP430F5132IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132	<a href="#">Samples</a>
MSP430F5132IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132	<a href="#">Samples</a>
MSP430F5132IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5132	<a href="#">Samples</a>
MSP430F5132IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5132	<a href="#">Samples</a>
MSP430F5151IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5151	<a href="#">Samples</a>
MSP430F5151IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151	<a href="#">Samples</a>
MSP430F5151IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151	<a href="#">Samples</a>
MSP430F5151IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5151	<a href="#">Samples</a>
MSP430F5151IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5151	<a href="#">Samples</a>
MSP430F5152IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152	<a href="#">Samples</a>
MSP430F5152IDAR	ACTIVE	TSSOP	DA	38	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152	<a href="#">Samples</a>

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
MSP430F5152IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152	<a href="#">Samples</a>
MSP430F5152IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152	<a href="#">Samples</a>
MSP430F5152IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152	<a href="#">Samples</a>
MSP430F5152IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152	<a href="#">Samples</a>
MSP430F5171IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171	<a href="#">Samples</a>
MSP430F5171IDAR	ACTIVE	TSSOP	DA	38	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171	<a href="#">Samples</a>
MSP430F5171IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171	<a href="#">Samples</a>
MSP430F5171IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171	<a href="#">Samples</a>
MSP430F5171IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5171	<a href="#">Samples</a>
MSP430F5171IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5171	<a href="#">Samples</a>
MSP430F5172IDA	ACTIVE	TSSOP	DA	38	40	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172	<a href="#">Samples</a>
MSP430F5172IDAR	ACTIVE	TSSOP	DA	38	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172	<a href="#">Samples</a>
MSP430F5172IRSBR	ACTIVE	WQFN	RSB	40	3000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172	<a href="#">Samples</a>
MSP430F5172IRSBT	ACTIVE	WQFN	RSB	40	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172	<a href="#">Samples</a>
MSP430F5172IYFFR	ACTIVE	DSBGA	YFF	40	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172	<a href="#">Samples</a>
MSP430F5172IYFFT	ACTIVE	DSBGA	YFF	40	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172	<a href="#">Samples</a>

(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.

**OBSELETE:** 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  $\leq 1000$ ppm threshold. Antimony trioxide based flame retardants must also meet the  $\leq 1000$ 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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