

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
MSP430F5131IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5131
MSP430F5131IDAR	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5131
MSP430F5131IDAR.Z	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5131
MSP430F5131IRSBR	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131
MSP430F5131IRSBR.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131
MSP430F5131IRSBT	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131
MSP430F5131IRSBT.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5131
MSP430F5131IYFFR	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5131
MSP430F5131IYFFT	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5131
MSP430F5131IYFFT.Z	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5131
MSP430F5132IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132
MSP430F5132IDA.Z	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132
MSP430F5132IDAR	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132
MSP430F5132IDAR.Z	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5132
MSP430F5132IRSBR	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132
MSP430F5132IRSBR.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132
MSP430F5132IRSBT	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132
MSP430F5132IRSBT.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5132
MSP430F5132IYFFR	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5132
MSP430F5132IYFFT	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5132
MSP430F5151IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5151
MSP430F5151IRSBR	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151

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MSP430F5151IRSB.R.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151
MSP430F5151IRSB.T	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151
MSP430F5151IRSB.T.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5151
MSP430F5151IYFF.R	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5151
MSP430F5151IYFF.T	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5151
MSP430F5151IYFF.T.Z	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5151
MSP430F5152IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152
MSP430F5152IDA.Z	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152
MSP430F5152IDAR	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152
MSP430F5152IDAR.Z	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5152
MSP430F5152IRSB.R	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152
MSP430F5152IRSB.R.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152
MSP430F5152IRSB.T	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152
MSP430F5152IRSB.T.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5152
MSP430F5152IYFF.R	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152
MSP430F5152IYFF.R.Z	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152
MSP430F5152IYFF.T	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152
MSP430F5152IYFF.T.Z	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5152
MSP430F5171IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171
MSP430F5171IDA.Z	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171
MSP430F5171IDAR	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171
MSP430F5171IDAR.Z	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5171
MSP430F5171IRSB.R	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171
MSP430F5171IRSB.R.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171

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MSP430F5171IRSBG4.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171
MSP430F5171IRSBT	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171
MSP430F5171IRSBT.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5171
MSP430F5171IYFFR	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5171
MSP430F5171IYFFT	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5171
MSP430F5171IYFFT.Z	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5171
MSP430F5172IDA	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172
MSP430F5172IDA.Z	Active	Production	TSSOP (DA) 38	40 TUBE	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172
MSP430F5172IDAR	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172
MSP430F5172IDAR.Z	Active	Production	TSSOP (DA) 38	2000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430F5172
MSP430F5172IRSBR	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172
MSP430F5172IRSBR.Z	Active	Production	WQFN (RSB) 40	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172
MSP430F5172IRSBT	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172
MSP430F5172IRSBT.Z	Active	Production	WQFN (RSB) 40	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	M430 F5172
MSP430F5172IYFFR	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172
MSP430F5172IYFFR.Z	Active	Production	DSBGA (YFF) 40	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172
MSP430F5172IYFFT	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172
MSP430F5172IYFFT.Z	Active	Production	DSBGA (YFF) 40	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	M430F5172

⁽¹⁾ **Status:** For more details on status, see our [product life cycle](#).

⁽²⁾ **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

⁽⁴⁾ **Lead finish/Ball material:** Parts 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.

⁽⁵⁾ **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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