

**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)
<a href="#">MSP430F6630IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6630
MSP430F6630IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6630
<a href="#">MSP430F6631IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6631
MSP430F6631IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6631
<a href="#">MSP430F6632IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6632
MSP430F6632IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6632
<a href="#">MSP430F6632IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6632
MSP430F6632IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6632
<a href="#">MSP430F6633IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6633
MSP430F6633IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6633
<a href="#">MSP430F6633IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6633
MSP430F6633IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6633
<a href="#">MSP430F6634IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6634
MSP430F6634IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6634
<a href="#">MSP430F6634IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6634
MSP430F6634IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6634
<a href="#">MSP430F6634IZCAR</a>	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6634
MSP430F6634IZCAR.Z	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6634
<a href="#">MSP430F6635IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6635
MSP430F6635IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6635

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)
<a href="#">MSP430F6635IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6635
MSP430F6635IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6635
<a href="#">MSP430F6635IZCAR</a>	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6635
MSP430F6635IZCAR.Z	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6635
<a href="#">MSP430F6636IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6636
MSP430F6636IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6636
<a href="#">MSP430F6636IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6636
MSP430F6636IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6636
<a href="#">MSP430F6636IZQWR</a>	Obsolete	Production	BGA MICROSTAR JUNIOR (ZQW)   113	-	-	Call TI	Call TI	-40 to 85	M430F6636
<a href="#">MSP430F6637IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6637
MSP430F6637IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6637
<a href="#">MSP430F6638IPZ</a>	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6638
MSP430F6638IPZ.Z	Active	Production	LQFP (PZ)   100	90   JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6638
<a href="#">MSP430F6638IPZR</a>	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6638
MSP430F6638IPZR.Z	Active	Production	LQFP (PZ)   100	1000   LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	M430F6638
<a href="#">MSP430F6638IZCAR</a>	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6638
MSP430F6638IZCAR.Z	Active	Production	NFBGA (ZCA)   113	2500   LARGE T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6638
<a href="#">MSP430F6638IZCAT</a>	Active	Production	NFBGA (ZCA)   113	250   SMALL T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6638
MSP430F6638IZCAT.Z	Active	Production	NFBGA (ZCA)   113	250   SMALL T&R	Yes	SNAGCU	Level-3-260C-168 HR	-40 to 85	F6638
<a href="#">MSP430F6638IZQWR</a>	Obsolete	Production	BGA MICROSTAR JUNIOR (ZQW)   113	-	-	Call TI	Call TI	-40 to 85	M430F6638
<a href="#">MSP430F6638IZQWT</a>	Obsolete	Production	BGA MICROSTAR JUNIOR (ZQW)   113	-	-	Call TI	Call TI	-40 to 85	M430F6638

<sup>(1)</sup> **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.

**Important Information and Disclaimer:**The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.