

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 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| MSP430F5513IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5513 | Samples |
| MSP430F5514IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5514 | Samples |
| MSP430F5514IRGCT | ACTIVE | VQFN | RGC | 64 | 250 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5514 | Samples |
| MSP430F5515IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5515 | Samples |
| MSP430F5515IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5515 | Samples |
| MSP430F5517IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5517 | Samples |
| MSP430F5517IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5517 | Samples |
| MSP430F5519IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5519 | Samples |
| MSP430F5519IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5519 | Samples |
| MSP430F5521IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5521 | Samples |
| MSP430F5521IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5521 | Samples |
| MSP430F5522IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5522 | Samples |
| MSP430F5522IRGCT | ACTIVE | VQFN | RGC | 64 | 250 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5522 | Samples |
| MSP430F5522IZXH | ACTIVE | NFBGA | ZXH | 80 | 576 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5522 | Samples |
| MSP430F5522IZXHR | ACTIVE | NFBGA | ZXH | 80 | 2500 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5522 | Samples |
| MSP430F5524IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5524 | Samples |
| MSP430F5524IRGCT | ACTIVE | VQFN | RGC | 64 | 250 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5524 | Samples |
| MSP430F5524IZXH | ACTIVE | NFBGA | ZXH | 80 | 576 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5524 | Samples |
| MSP430F5524IZXHR | ACTIVE | NFBGA | ZXH | 80 | 2500 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5524 | Samples |
| MSP430F5525IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5525 | 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 |
|------------------|---------------|--------------|-----------------|------|-------------|-----------------|--------------------------------------|----------------------|--------------|-------------------------|-------------------------|
| MSP430F5525IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5525 | Samples |
| MSP430F5526IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5526 | Samples |
| MSP430F5526IRGCT | ACTIVE | VQFN | RGC | 64 | 250 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5526 | Samples |
| MSP430F5526IZXH | ACTIVE | NFBGA | ZXH | 80 | 576 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5526 | Samples |
| MSP430F5526IZXHR | ACTIVE | NFBGA | ZXH | 80 | 2500 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5526 | Samples |
| MSP430F5527IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5527 | Samples |
| MSP430F5527IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5527 | Samples |
| MSP430F5528IRGCR | ACTIVE | VQFN | RGC | 64 | 2000 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5528 | Samples |
| MSP430F5528IRGCT | ACTIVE | VQFN | RGC | 64 | 250 | RoHS & Green | NIPDAU NIPDAUAG | Level-3-260C-168 HR | -40 to 85 | M430F5528 | Samples |
| MSP430F5528YFFR | ACTIVE | DSBGA | YFF | 64 | 2500 | RoHS & Green | SNAGCU | Level-1-260C-UNLIM | -40 to 85 | M430F5528 | Samples |
| MSP430F5528IZXH | ACTIVE | NFBGA | ZXH | 80 | 576 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5528 | Samples |
| MSP430F5528IZXHR | ACTIVE | NFBGA | ZXH | 80 | 2500 | RoHS & Green | SNAGCU | Level-3-260C-168 HR | -40 to 85 | F5528 | Samples |
| MSP430F5529IPN | ACTIVE | LQFP | PN | 80 | 119 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5529 | Samples |
| MSP430F5529IPNR | ACTIVE | LQFP | PN | 80 | 1000 | RoHS & Green | NIPDAU | Level-3-260C-168 HR | -40 to 85 | M430F5529 | 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 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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