

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
MSP432P4011TRGCR	ACTIVE	VQFN	RGC	64	2000	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P4011T	Samples
MSP432P4011TRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P4011T	Samples
MSP432P401VTRGCR	ACTIVE	VQFN	RGC	64	2000	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P401VT	Samples
MSP432P401VTRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P401VT	Samples
MSP432P401YTRGCR	ACTIVE	VQFN	RGC	64	2000	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P401YT	Samples
MSP432P401YTRGCT	ACTIVE	VQFN	RGC	64	250	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-3-260C-168 HR	-40 to 105	P401YT	Samples
MSP432P4111TPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P4111T	Samples
MSP432P4111TPZR	ACTIVE	LQFP	PZ	100	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P4111T	Samples
MSP432P411VTPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P411VT	Samples
MSP432P411VTPZR	ACTIVE	LQFP	PZ	100	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P411VT	Samples
MSP432P411YTPZ	ACTIVE	LQFP	PZ	100	90	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P411YT	Samples
MSP432P411YTPZR	ACTIVE	LQFP	PZ	100	1000	Green (RoHS & no Sb/Br)	NIPDAU	Level-3-260C-168 HR	-40 to 105	MSP432P411YT	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.

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 ≤ 1000 ppm threshold. Antimony trioxide based flame retardants must also meet the ≤ 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/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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