

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
MSPM0L1227SPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	M0L1227S	Samples
MSPM0L1227SPTR	ACTIVE	LQFP	PT	48	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	M0L1227S	Samples
MSPM0L1227SRGER	ACTIVE	VQFN	RGE	24	5000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	MSPM0 L1227S	Samples
MSPM0L1228SPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 124	M0L1228S	Samples
MSPM0L1228SPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	M0L1228S	Samples
MSPM0L1228SPTR	ACTIVE	LQFP	PT	48	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	M0L1228S	Samples
MSPM0L1228SRGER	ACTIVE	VQFN	RGE	24	5000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM		MSPM0 L1228S	Samples
MSPM0L2227SPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	M0L2227S	Samples
MSPM0L2228SPMR	ACTIVE	LQFP	PM	64	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	M0L2228S	Samples
MSPM0L2228SPNR	ACTIVE	LQFP	PN	80	1000	RoHS & Green	NIPDAU	Level-3-260C-168 HR	-40 to 125	M0L2228S	Samples
MSPM0L2228SPTR	ACTIVE	LQFP	PT	48	1000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	M0L2228S	Samples
XMSPM0L1228SPMR	ACTIVE	LQFP	PM	64	1000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L1228SPNR	ACTIVE	LQFP	PN	80	1000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L1228SPTR	ACTIVE	LQFP	PT	48	1000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L1228SRGER	ACTIVE	VQFN	RGE	24	3000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L1228SRGZR	ACTIVE	VQFN	RGZ	48	2500	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L1228SRHBR	ACTIVE	VQFN	RHB	32	3000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L2228SPMR	ACTIVE	LQFP	PM	64	1000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L2228SPNR	ACTIVE	LQFP	PN	80	1000	TBD	Call TI	Call TI	-40 to 125		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
XMSPM0L2228SPTR	ACTIVE	LQFP	PT	48	1000	TBD	Call TI	Call TI	-40 to 125		Samples
XMSPM0L2228SRGZR	ACTIVE	VQFN	RGZ	48	2500	TBD	Call TI	Call TI	-40 to 125		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.

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.

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OTHER QUALIFIED VERSIONS OF MSPM0L1228, MSPM0L2228 :

- Automotive : [MSPM0L1228-Q1](#), [MSPM0L2228-Q1](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects