



[Maxim](#) > [Design Support](#) > [Technical Documents](#) > [Application Notes](#) > [Memory](#) > APP 5013
[Maxim](#) > [Design Support](#) > [Technical Documents](#) > [Application Notes](#) > [Real-Time Clocks](#) > APP 5013

Keywords: lithium, battery, MSDS

APPLICATION NOTE 5013

Lithium Battery Content in Maxim Products

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Abstract: Maxim produces a variety of products that contain embedded lithium coin-cell batteries. This article addresses questions pertaining to the specific battery content in those listed products.

Maxim produces a variety of products that contain embedded lithium coin-cell batteries. As a direct result of changes to environmental and transport legislation, customers have asked about the battery in some of our products.

Table 1 shows active products with a lithium coin cell at the date this publication.

Table 1. Products Containing a Lithium Coin Cell

Product	Cell Type	Cells
DS1216	BR1225	2
DS1220	BR1225	1
DS1225	BR1225	1
DS1230*	BR1632	1
DS1244*	BR1632	1
DS1245*	BR1632	1
DS1248*	BR1632	1
DS1249	BR1632	1
DS1250*	BR1632	1
DS1251*	BR1632	1
DS1265	BR1632	1
DS1270	BR1632	1
DS12887	BR1225	1
DS12CR887	BR1225	1
DS12R887	ML614	1
DS1511	BR1225	1
DS1553*	BR1225	1
DS1554*	BR1632	1
DS1556*	BR1632	1

DS1557*	BR1632	1
DS1642	BR1225	1
DS1643*	BR1225	1
DS1644*	BR1632	1
DS1646*	BR1632	1
DS1647*	BR1632	1
DS1687	BR1632	1
DS17287	BR1632	1
DS1742	BR1225	1
DS1743*	BR1225	1
DS1744*	BR1632	1
DS1746*	BR1632	1
DS1747*	BR1632	1
DS17487	BR1632	1
DS17887	BR1632	1
DS9034	BR1632	1

*DIP package only. PowerCap battery is located within the DS9034.

To locate the Materials Safety Data Sheet (MSDS) for the listed battery cell type, visit the [Panasonic® website](#).

If the cell type listed in Table 1 begins with "BR," then look for the category *Primary Coin & Cylindrical Type* on the Panasonic webpage. Select *Coin Type (BR & CR)* or use this link: www.panasonic.com/industrial/batteries-oem/oem/primary-coin-cylindrical/br-cr.aspx.

If the cell type listed in Table 1 begins with "ML," then look for the category *Rechargeable Coin Type* on the Panasonic webpage. Select *Manganese Lithium Rechargeable (ML Coin)* or use this link: www.panasonic.com/industrial/batteries-oem/oem/rechargeable-coin/manganese-lithium.aspx.

Based upon your selection, you will be directed to the specific product page which at center page begins with a marketing overview of that battery type. Directly above the word "Overview" is a link titled *Resources (Click to Expand/Close)*. Expanding that list will present links to locate RoHS, MSDS, disposal, and other information for the selected chemistry.

To locate the RoHS-compliant materials information for the Maxim product in question, [visit our website](#). Enter the product number into the search box. The search engine will display all available ordering options of that product. After you select an ordering option from the list, the contents will then be displayed as a percentage of the total product weight. Reports can be downloaded in a .pdf file format.

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Related Parts

[DS1216](#)

SmartWatch RAM DS1216B/C/D/H
SmartWatch ROM DS1216E/F

[Free Samples](#)

DS1220AB	16k Nonvolatile SRAM	Free Samples
DS1220AD	16k Nonvolatile SRAM	Free Samples
DS1225AB	64k Nonvolatile SRAM	Free Samples
DS1225AD	64k Nonvolatile SRAM	Free Samples
DS1230AB	256k Nonvolatile SRAM	Free Samples
DS1230W	3.3V 256k Nonvolatile SRAM	Free Samples
DS1230Y	256k Nonvolatile SRAM	Free Samples
DS1244	256k NV SRAM with Phantom Clock	Free Samples
DS1245AB	1024k Nonvolatile SRAM	Free Samples
DS1245W	3.3V 1024k Nonvolatile SRAM	Free Samples
DS1245Y	1024k Nonvolatile SRAM	Free Samples
DS1249AB	2048k Nonvolatile SRAM	Free Samples
DS1249W	3.3V 2048kb Nonvolatile SRAM	Free Samples
DS1249Y	2048k Nonvolatile SRAM	Free Samples
DS1250AB	4096k Nonvolatile SRAM	Free Samples
DS1250W	3.3V 4096k Nonvolatile SRAM	Free Samples
DS1250Y	4096k Nonvolatile SRAM	Free Samples
DS1251	4096K NV SRAM with Phantom Clock	Free Samples
DS1265AB	8M Nonvolatile SRAM	Free Samples
DS1265W	3.3V 8Mb Nonvolatile SRAM	Free Samples
DS1265Y	8M Nonvolatile SRAM	Free Samples
DS1270AB	16M Nonvolatile SRAM	Free Samples
DS1270W	3.3V 16Mb Nonvolatile SRAM	Free Samples
DS1270Y	16M Nonvolatile SRAM	Free Samples
DS12887	Real-Time Clocks	Free Samples
DS12CR887	RTCs with Constant-Voltage Trickle Charger	Free Samples
DS12R887	RTCs with Constant-Voltage Trickle Charger	Free Samples
DS1511	Y2K-Compliant Watchdog Real-Time Clocks	Free Samples
DS1553	64kB, Nonvolatile, Year-2000-Compliant Timekeeping RAM	Free Samples
DS1554	256k Nonvolatile, Y2K-Compliant Timekeeping RAM	Free Samples

DS1556	1M, Nonvolatile, Y2K-Compliant Timekeeping RAM	Free Samples
DS1557	4Meg, Nonvolatile, Y2K-Compliant Timekeeping RAM	Free Samples
DS1642	Nonvolatile Timekeeping RAM	Free Samples
DS1643	Nonvolatile Timekeeping RAM	Free Samples
DS1644	Nonvolatile Timekeeping RAM	Free Samples
DS1646	Nonvolatile Timekeeping RAM	Free Samples
DS1647	Nonvolatile Timekeeping RAM	Free Samples
DS1687	3V/5V Real-Time Clock	Free Samples
DS17287	3V/5V Real-Time Clocks	Free Samples
DS1742	Y2KC Nonvolatile Timekeeping RAM	Free Samples
DS1743	Y2K-Compliant, Nonvolatile Timekeeping RAMs	Free Samples
DS1744	Y2K-Compliant, Nonvolatile Timekeeping RAMs	Free Samples
DS1746	Y2K-Compliant, Nonvolatile Timekeeping RAMs	Free Samples
DS1747	Y2K-Compliant, Nonvolatile Timekeeping RAMs	Free Samples
DS17487	3V/5V Real-Time Clocks	Free Samples
DS17887	3V/5V Real-Time Clocks	Free Samples
DS9034PC	PowerCap	Free Samples
DS9034PCX	PowerCap with Crystal	Free Samples

More Information

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