Panasonic ideas for life

PRODUCTS

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INDUSTRIAL SOLUTIONS

LITHIUM - Coin Type

Coin type lithium batteries are high energy, high reliability batteries for a variety of applications. The full 3 volts in these high energy density batteries is about twice that of conventional dry batteries.

Panasonic coin type lithium batteries are available in two types: poly-carbonmonofluoride lithium batteries (BR series) for uses that require extended reliability and safety, and manganese dioxide lithium batteries (CR series) for uses that require high voltage and strong load pulse characteristics.

The CR Lithium primary coin cells contain Perchlorate over the limit specified by the state legislature of California and are therefore subject to requirements in the California Code of Regulations, title 22, division 4.5: Chapter 33 – Best Management Practices for Perchlorate Materials.



Features:

- High voltage of 3 volts twice that of conventional dry batteries
- Extremely small self-discharge for long service and shelf life
- A wide operational temperature range
- Compact and lightweight; extremely high energy density per unit weight
- Very safe (poly-carbonmonofluoride lithium)
- Extremely strong load pulse characteristics (manganese dioxide lithium)
- Operating temperature range:

BR Coin Cells: -30° C ~ $+80^{\circ}$ C CR Coin Cells: -30° C ~ $+60^{\circ}$ C

Applications:

Applications:

- Calculators
- Cameras
- Compact, low power consuming cordless applications
- Electronic translators
- Electronic watches (digital and analog)
 Memory back-up in all types of devices (with tab terminals)

Technical Data - Table 1 - (CF)n/LI: Poly-Carbon Monofluoride (BR)								
Model No.	Electrical Characteristics (20°C)		Standard Load	Dimensions			Tab Carfigurations	
	Nominal Voltage (V)	*Nominal Capacity (mAh)	Continuous Drain (mA)	Diameter (mm)	Height (mm)	Weight (g)		Tab Configurations
<u>BR1220</u>	3	35	0.03	12.5	2.00	0.7		
<u>BR1225</u>	3	48	0.03	12.5	2.50	0.8		
<u>BR1632</u>	3	120	0.03	16.0	3.20	1.5		
<u>BR2032</u>	3	190	0.03	20.0	3.20	2.5		
<u>BR2325</u>	3	165	0.03	23.0	2.50	3.2		
<u>BR2330</u>	3	255	0.03	23.0	3.00	3.2		
<u>BR3032</u>	3	500	0.03	30.0	3.20	5.5		
* Nominal ca	* Nominal capacity shown is based on standard drain and cut off voltage down to 2.0V at 20°C.							
Technic	Technical Data - Table 2 - Mn0₂/LI:Manganese Dioxide (CR)							
Model	Electrical Characteristics (20°C)		Standard Load	Dimensions			Tab Configurations	
No.	Nominal Voltage (V)	*Nominal Capacity (mAh)	Continuous Drain (mA)	Diameter (mm)	Height (mm)	Weight (g)		Tao Configurations
<u>CR1025</u>	3	30	0.10	10.0	2.50	0.7		
<u>CR1216</u>	3	25	0.10	12.5	1.60	0.7]

<u>CR1220</u>	3	35	0.10	12.5	2.00	1.2	
<u>CR1612</u>	3	40	0.10	16.0	1.20	0.8	
<u>CR1616</u>	3	55	0.10	16.0	1.60	1.2	
<u>CR1620</u>	3	75	0.10	16.0	2.00	1.3	
<u>CR1632</u>	3	140	0.10	16.0	3.20	1.8	
<u>CR2016</u>	3	90	0.10	20.0	1.60	1.6	
<u>CR2025</u>	3	165	0.20	20.0	2.50	2.3	
<u>CR2032</u>	3	225	0.20	20.0	3.20	2.9	
<u>CR2330</u>	3	265	0.20	23.0	3.00	3.8	
<u>CR2354</u>	3	560	0.20	23.0	5.40	5.8	
<u>CR2412</u>	3	100	0.20	24.5	1.20	2.0	
<u>CR2450</u>	3	620	0.20	24.5	5.00	6.3	
<u>CR2477</u>	3	1000	0.20	24.5	7.70	10.5	
<u>CR3032</u>	3	500	0.20	30.0	3.20	6.8	

* Nominal capacity shown is based on standard drain and cut off voltage down to 2.0V at 20°C. Note: Cells are available in assorted tab configurations. Consult your local regional office for additional information.

Technical Data - Table 3 - Coin Cell Tab Configurations (BR Series)					
Model No.	Tab Description Drawing				
BR1225/1HC	2 pin, horizontal mount, through hole, (with insulation wrap)				
BR1225/1VC	2 pin, vertical mount, through hole, (with insulation wrap)				
BR1632/1HF	2 pin, horizontal mount, through hole, (with insulation wrap)				
BR2032/1GU	3 pin, horizontal mount, through hole, (without insulation wrap)				
BR2032/1HE	2 pin, horizontal mount, through hole, (without insulation wrap)				
<u>BR2032/1VB</u>	2 pin, vertical mount, through hole, (without insulation wrap)				
<u>BR2032/1F2</u>	2 pin, flat mount, (with insulation wrap)				
BR2325/1HC	2 pin, horizontal mount, through hole, (with insulation wrap)				
BR2325/1HB	2 pin, horizontal mount, through hole, (without insulation wrap)				
BR2325/1VC	2 pin, vertical mount, through hole, (without insulation wrap)				
BR2325/1HG	2 pin, horizontal mount, through hole, (without insulation wrap)				
BR2325/1VG	2 pin, vertical mount, through hole, (without insulation wrap)				
BR2330/1HE	2 pin, horizontal mount, through hole, (without insulation wrap)				
BR2330/1VC	2 pin, vertical mount, through hole, (with insulation wrap)				
BR2330/1GVF	3 pin, vertical mount, through hole, (with insulation wrap)				

COIN CELL TAB CONFIGURATIONS

Model	Tab	Configuration				
Number	With Insulation Wrap	Diagram No.				
BR TYPE						
BR1220	/1HF	/1HE	1			
BR1220	/1VC	/1VB	2			
BR1225	/1HC	/1HB	3			
BR1225	/1VC		4			
BR1632	/1HF		5			
BR2032	/1HM		6			
BR2032		/1HG	7			
BR2032	/1HS	/1HSE	8			
BR2032	/1GUF	/1GU	9			
BR2032	/1HF	/1HE	10			
BR2032		/1VB	11			
BR2032	/1GVF	/1GV	12			
BR2032	/1F4		13			
BR2032	/1F2		14			
BR2325	/1HC	/1HB	15			
BR2325	/1VC		16			
BR2325		/1HG	17			
BR2325	/2HC		18			
BR2325		/1VG	19			
BR2330	/1HF	/1HE	20			
BR2330	/1GUF	/1GU	21			
BR2330	/1VC	/1VB	22			
BR2330	/1GVF	/1GV	23			
BR2330	/1F3		24			
BR2330	/1F4C		25			
BR3032	/1VC		26			
BR3032	/1F2		27			

Model	Tab	Configuration				
Number	Der With Insulation Wrap Without Insulation Wrap		Diagram No.			
CR TYPE						
CR1220	/1HF	/1HE	1			
CR1220	/1VC	/1VB	2			
CR1616		/1F2	28			
CR1632	/1HF		29			
CR2016	/1F2		6			
CR2025	/1F2		30			
CR2032		/1HU3	31			
CR2032	/1VS1		32			
CR2032		/1HG	8			
CR2032	/1HS	/1HSE	9			
CR2032	/1GUF	/1GU	10			
CR2032	/1HF	/1HE	11			
CR2032		/1VB	12			
CR2032	/1GVF	/1GV	13			
CR2032	/1F4		14			
CR2032	/1F2		15			
CR2330	/1HF	/1HE	20			
CR2330	/1GUF	/1GU	21			
CR2330	/1VC	/1VB	22			
CR2330	/1GVF	/1GV	23			
CR2330	/1F3		24			
CR2330	/1F4C		25			
CR2354	/1HF	/1HE	33			
CR2354	/1GUF	/1GU	34			
CR2354	/1VC	/1VB	35			
CR2477	/1VC	/1VB	36			
CR2477	/1HF	/1HE	37			
CR2450	/H1A		38			
CR2450	/G1A		39			
CR3032	/1VC		26			
CR3032	/1F2		27			

Note: Refer to page 60 for BR "A" (High Temp) Tab configurations. Please contact Panasonic for requests on custom Tab configurations. Minimum order requirements may apply.

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LITHIUM HANDBOOK

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