PRODUCTS

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°C CR Coin Cells: -30°C ~ +60°C

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	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)		1 ao Comigurations
BR1220	3	35	0.03	12.5	2.00	0.7		
BR1225	3	48	0.03	12.5	2.50	0.8		
BR1632	3	120	0.03	16.0	3.20	1.5		
BR2032	3	190	0.03	20.0	3.20	2.5		
BR2325	3	165	0.03	23.0	2.50	3.2		
BR2330	3	255	0.03	23.0	3.00	3.2		
BR3032	3	500	0.03	30.0	3.20	5.5		
+N								

^{*} Nominal capacity shown is based on standard drain and cut off voltage down to 2.0V at 20°C.

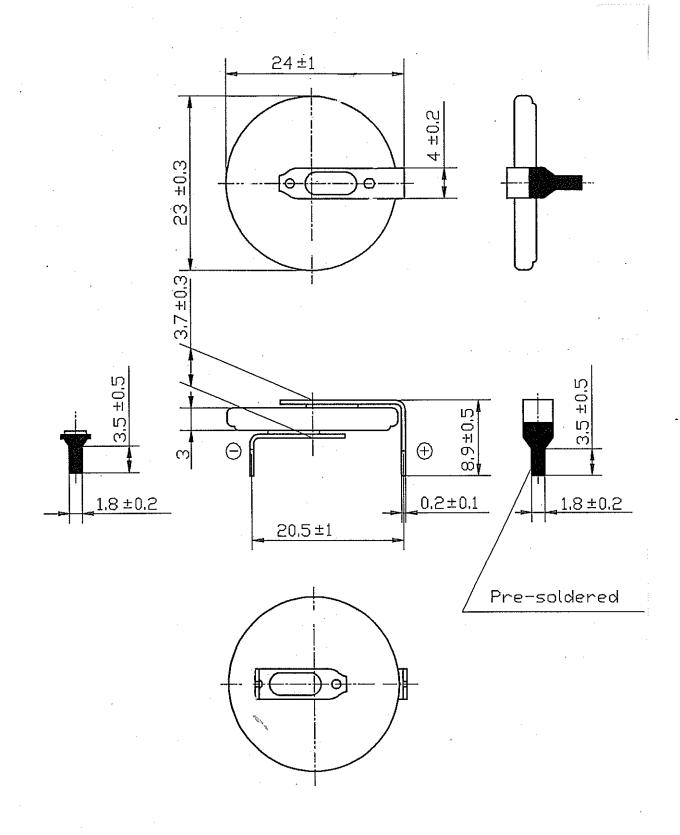
Technic	Technical Data - Table 2 - Mn0 ₂ /LI:Manganese Dioxide (CR)								
Model	Electrical Characteristics (20°C)		Standard Load	Dimensions			Tab Configurations		
No.	Nominal Voltage (V)	*Nominal Capacity (mAh)	Continuous Drain (mA)	Diameter (mm)	Height (mm)	Weight (g)		Tao Configurations	
<u>CR1025</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)					
BR2032/1VB	2 pin, vertical mount, through hole, (without insulation wrap)					
BR2032/1F2	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)					



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Matsushita Battery Industrial Co., Ltd. Lithium and Micro Battery Business Unit

Poly-carbonmonofluoride (BR Series) and Manganese Dioxide (CR Series)

COIN CELL TAB CONFIGURATIONS

Model	Tab	Configuration						
Number	With Insulation Wrap	Without 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					

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.

Model	Tab	Configuration							
Number	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						