

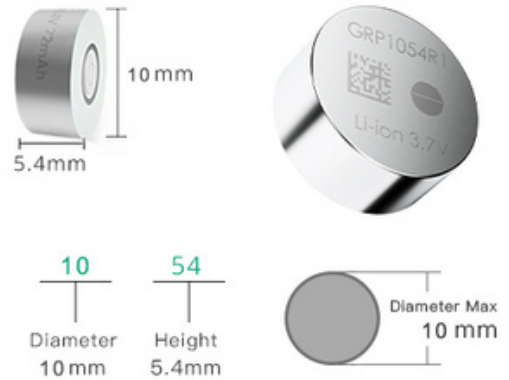


Battery Specifications

Model No.:	GRP1054R1
Chemistry:	LiCoO2
Nominal Voltage [V]:	3.70
Nominal Capacity [mAh]:	46 (at 0.2C from 4.2V to 3.0V at 25°C)
Minimum Capacity [mAh]:	44 (at 0.2C from 4.2V to 3.0V at 25°C)
Watt Hour [Wh]:	0.170Wh
Internal Impedance [Ω]:	< 0.26 @1kHz

Dimensions (without Tags)

Diameter [mm]:	10.1±0.1
Height [mm]:	5.45±0.15
Weight. approx [g]:	1.30±0.15



Charging Specifications

Max Voltage [V]:	4.20
Normal Charging Current [mA]:	23mA / 0.5C / 3hr
Max Charging Current [mA]:	138mA / 3C / 1.1hr
Charging Temperature [°C]:	0 to 45

Discharging Specifications

Cut Off Voltage [V]:	3.0
Max. Discharging Current [mA]:	92 mA (Continuous)
Discharging Temperature [°C]:	-20 to 60

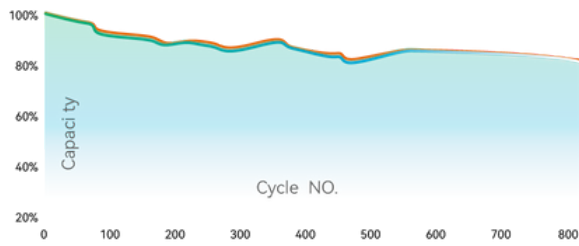
Others

Storage Temperature [°C]	1 Year	at -20 to 20°C	> 90%
Capacity Recovery Rate [%]	3 Months	at -20 to 45°C	> 90%
	1 Month	at -20 to 60°C	> 85%
Cycle Life 1C/1C, 20°C [Cycles]	> 500 (>80% of initial capacity)		
Safety	UN 38.3 passed, IEC 62133 passed		

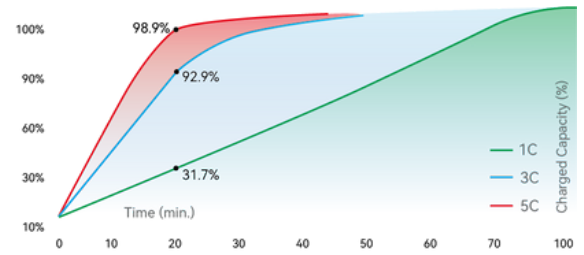
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Cycle Test

1C charging/discharge, ≥80% of initial capacity after 800 cycles



Charging Test

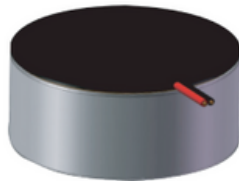


Battery Connection Solutions (For Button Cell battery)

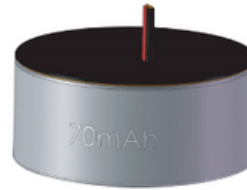
Hardwire Solutions



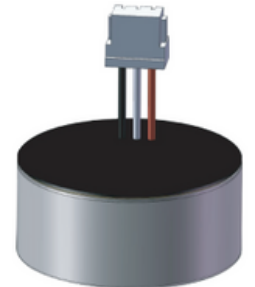
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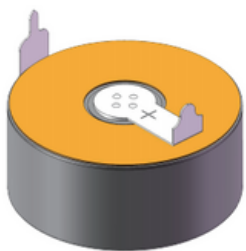


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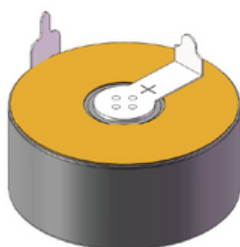


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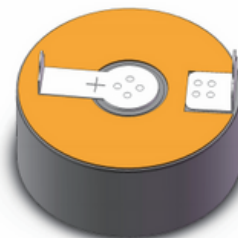
Tab Solutions



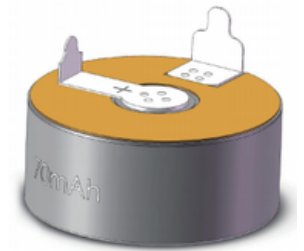
#1



#2



#3



#4

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