

## FEATURES AND BENEFITS:

- # Broad Operating Temperature (-40°C to 150°C)
- # Shock & Vibration Resistant
- # Hermetically Sealed
- # Eco-Friendly
- # Weldable Stainless Steel Terminals
- # Designed and Assembled in the USA

## APPLICATIONS:

- # Power Buffer for Actuators
- # Consumer Electronics
- # Propulsion Systems
- # Pyrotechnic Applications
- # Grid and Renewable Energy
- # Portable tools



## preliminary TECHNICAL SPECIFICATIONS

### ELECTRICAL

Rated Voltage	1.0 V
Surge Voltage	1.1 V
Rated Capacitance <sup>1,9</sup>	33.2 F
Initial ESR <sup>1,9</sup>	16.4 mΩ
Rated Capacitance at 25°C <sup>9</sup>	32.1 F
Initial ESR at 25°C <sup>9</sup>	21.6 mΩ
Leakage Current at 25°C <sup>2</sup>	0.01 mA

### PERFORMANCE

Rated Lifetime <sup>3</sup>	1,500 hours
Cycle life at 25°C <sup>4</sup>	>1,000,000 cycles
Lifetime at 25°C <sup>5</sup>	>20,000 hours
Shelf Life at 25°C <sup>6</sup>	>10 years
Shock & Vibration Survivability	500G <sub>peak</sub> & 20G <sub>rms</sub>
Hermeticity (Helium Leak Rate)	<1x10 <sup>-8</sup> cc/sec of He

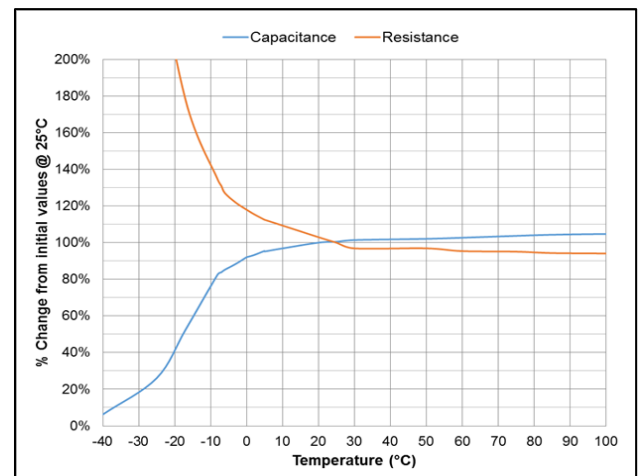
### TEMPERATURE

Maximum Operating Temperature	150°C
Minimum Operating Temperature	-40°C
Storage Temperature Range <sup>6</sup>	-40°C to 160°C

### PHYSICAL

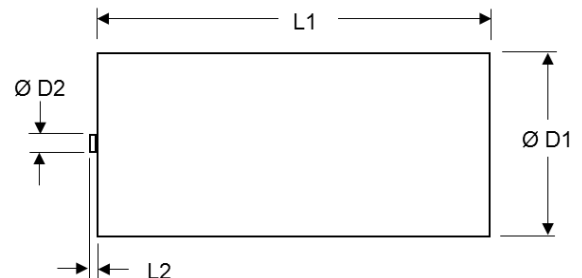
ØD1	ØD2	L1	L2	Mass	Volume
13.5 mm (0.53 in)	3.1 mm	55 mm (2.17 in)	0.79 mm	.021 Kg	7.9 mL

### ESR AND CAPACITANCE VS. TEMPERATURE



Notes:

1. At maximum operating temperature
2. After 72 hours at rated voltage
3. Held continuously at rated voltage and maximum operating temperature
4. Continuous cycles at rated voltage
5. Held continuously at rated voltage
6. Fully discharged
7. Negative terminal is entire external housing
8. Product dimensions as shown are for reference and not drawn to scale
9. Tolerance ± 10%



## Disclaimer

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