



**Description**

Cooper Bussmann PowerStor supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor solutions tailored to specific applications that range from a few micro-amps for several days to several amps for a few milliseconds.

**Features & Benefits**

- Ultra low ESR for high power density
- Large capacitance for high energy density
- Long Cycle Life

**Applications**

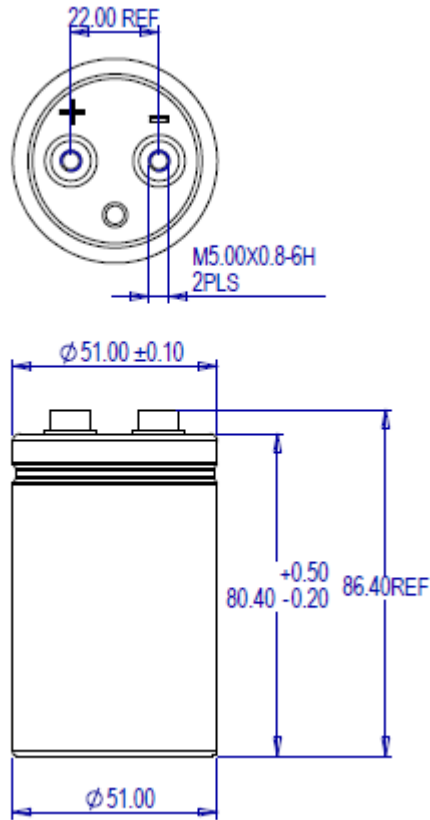
- Hybrid Battery or Fuel Cell Systems
- High Pulse Current Applications
- UPS / Hold Up Power

SPECIFICATIONS	
Working Voltage	2.7 volts
Surge Voltage	2.85 volts
Capacitance	1000F
Capacitance Tolerance	0% to +20% (20°C)
Operating Temperature Range	-40°C to 65°C

STANDARD PRODUCT					
Capacitance (F)	Part Number	Nominal ESR (mΩ) (Equivalent Series Resistance)		Nominal Dimensions (mm)	Typical Mass (grams/piece)
		1kHz (ref)	DC Resistance		
1000	X5080-2R7108-R	1.5	1.5	φ = 50; L = 80	TBD

PERFORMANCE		
Parameter	Capacitance Change (% of initial measured value)	ESR (% of initial measured value)
Life (1000 hrs @ 65°C @ 2.7 volts DC)	≤ 20 %	≤ 200 %
Storage - Low and High Temperature (1000 hrs @ -40°C and 70°C)	≤ 20 %	≤ 200 %

DIMENSIONS (mm)



PART NUMBERING SYSTEM											
X	□	□	□	□	-	□	R	□	□	□	□
Series Code	Dimensions (mm)					Voltage (V) R is decimal		Capacitance (μ F)			
X Series	Diameter		Length			2R7 = 2.7V		Value		Multiplier	
								Example: 106 = 10 x 10 <sup>6</sup> μ F or 10 F			

PACKAGING INFORMATION	PART MARKING
Packaging TBD	Manufacturer Capacitance (F) Nominal Working Voltage (V) Series Code (or part number) Polarity Marking

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Visit us on the Web at [www.cooperbussmann.com](http://www.cooperbussmann.com)

1225 Broken Sound Parkway, NW, Suite F, Boca Raton, Florida 33487-3533

Tel: +1-561-998-4100 Toll Free: +1-888-414-2645 Fax: +1-561-241-6640

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