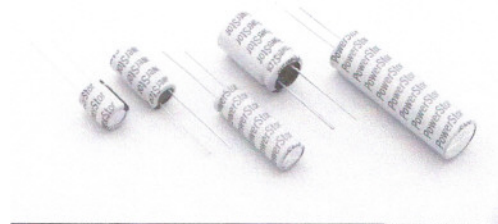


Description

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

**CYLINDRICAL DEVICE****SPECIFICATIONS**

Working Voltage	2.5 volts
Surge Voltage	3.0 volts
Capacitance	1.0 to 9.0F
Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	-40°C to 70°C
Extended Operating Temperature Range	-40°C to 85°C (Max. working voltage:2.0V)

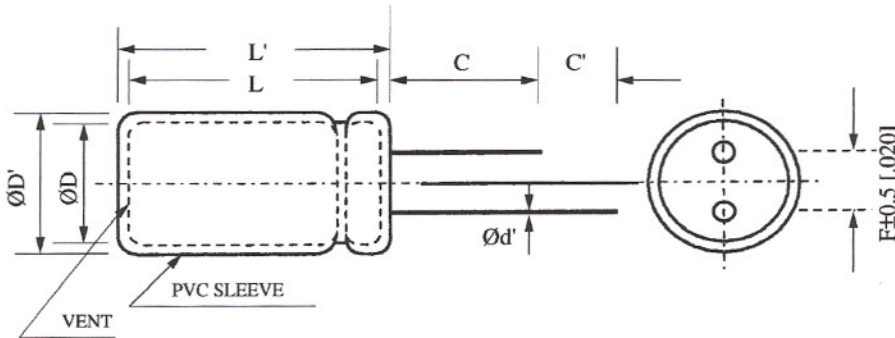
STANDARD PRODUCT

Capacitance (F)	Part Number	Nominal ESR (Equivalent Series Resistance) Measured @ 100Hz (Ω)	Nominal Dimensions (mm)
1	M0810-2R5105-R	0.200	φ = 8 mm; L = 13 mm
2	M0820-2R5205-R	0.100	φ = 8 mm; L = 20 mm
3	M1020-2R5305-R	0.050	φ = 10 mm; L = 20.5 mm
6	M1030-2R5605-R	0.035	φ = 10 mm; L = 30 mm
9	M1325-2R5905-R	0.020	φ = 13 mm; L = 26 mm

PERFORMANCE

Parameter	Capacitance Change (% of initial measured value)	ESR (% of initial measured value)
Life (1000 hrs @ 70°C @ 2.5 volts DC)	≤ 30 %	≤ 200 %
Storage- Low and High Temperature (1000 hrs @ -40°C and 70°C)	≤ 30 %	≤ 200 %

DIMENSIONS (mm)								
Part Number	D	D'	L	L'	F	d	C	C'
M0810-2R5105-R	8.0	8.5	13.0	13.5	3.5	0.5	20.0	5.0
M0820-2R5205-R	8.0	8.5	20.5	21.0	3.5	0.5	20.0	5.0
M1020-2R5305-R	10.0	10.5	21.8	22.3	5.0	0.60	20.0	5.0
M1030-2R5605-R	10.0	10.5	31.0	31.5	5.0	0.60	20.0	5.0
M1325-2R5905-R	13.0	13.5	27.9	28.4	5.0	0.60	20.0	5.0
Maximum					± 0.5	± 0.02	Minimum	



PART NUMBERING SYSTEM											
M	□	□	□	□	-	□	R	□	□	□	□
Series Code	Dimensions (mm)					Voltage (V) R is decimal		Capacitance (μ F)			
M Series	Diameter	Length				2R5 = 2.5V		Value	Multiplier		
								Example: 905 = $9 \times 10^5 \mu$ F or 9 F			

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