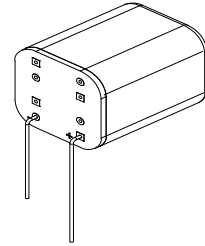


Description

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.



SERIES	FEATURES AND BENEFITS		APPLICATIONS
	Generic	Specific	
PM	Low ESR High capacitance Long cycle life Low leakage currents RoHS compliant	Low ESR with high energy density	Pulse Power Bridge or Hold Up Power

SPECIFICATIONS

Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	-40°C to 60°C
Extended Operating Temperature Range	-40°C to 85°C (with 20% voltage derating)

CUSTOM PRODUCTS

HIGH ENERGY DENSITY & ULTRA LOW ESR (PM SERIES)

Nominal Capacitance (F)	Part Number	Working Voltage (Maximum)	Nominal ESR (Ω) (Equivalent Series Resistance)		Nominal Dimensions	Typical Mass (grams/piece)
			Measured @ 1kHz	Measured @ DC		
0.5	PM-10R0H504-1	10.0	0.30	0.40	16.8 x 16.8 x 21.5 mm	7.0

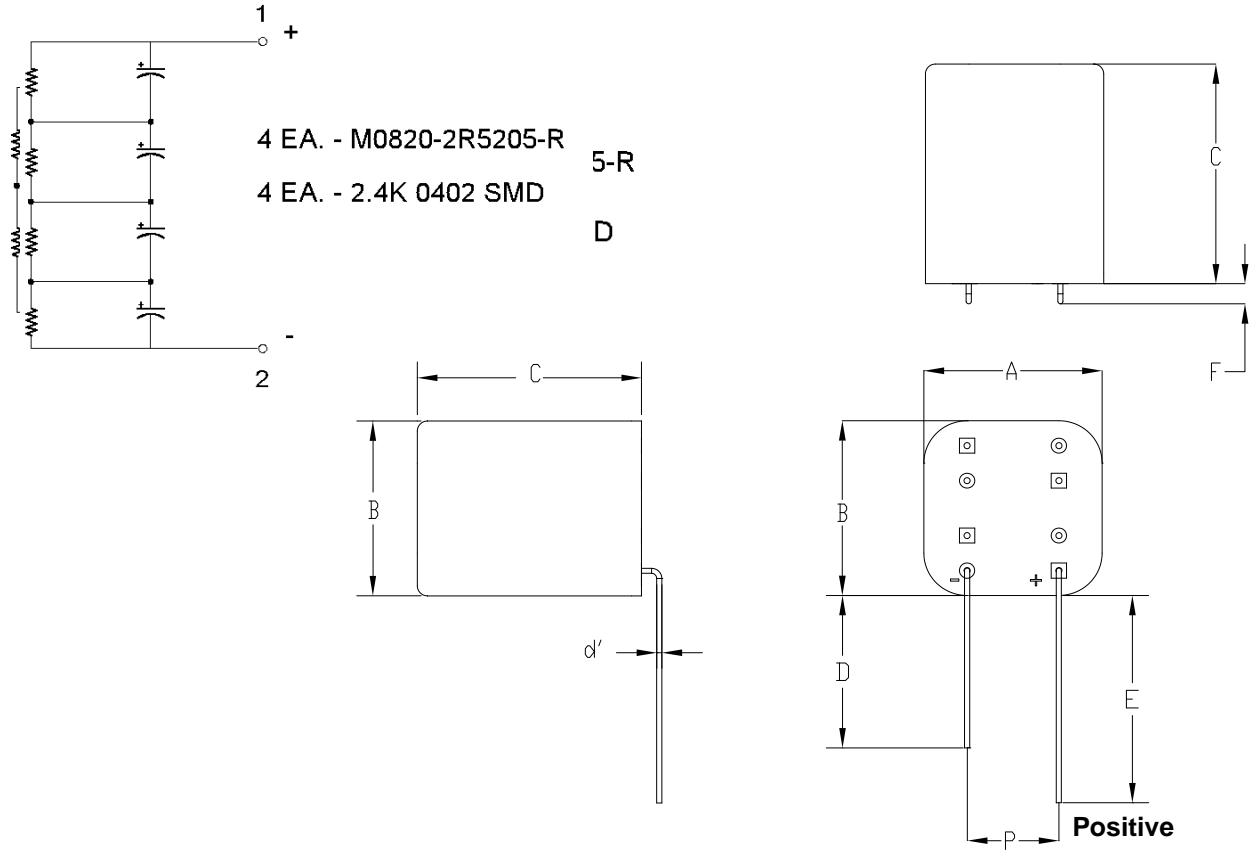
PERFORMANCE

Parameter	Capacitance Change (% of initial specified value)	ESR (% of initial specified value)
Life (1000 hrs @ 60°C & rated voltage, DC)	≤ 30 %	≤ 200 %
Storage- Low and High Temperature (1000 hrs @ -40°C and 60°C)	≤ 30 %	≤ 200 %

DIMENSIONS (mm)

Part Number	A	B	C	d'	D	E	F	P
PM-10R0H504-1	17.5	17.5	22.0	0.5	13	18	2.0	8.7
<i>Tolerances</i>	Maximum			± 0.02	Minimum		± 0.5	

PM-10R0H474-1



PART NUMBERING SYSTEM											
P	M	-	5	R	0	□	□	□	□	-	1
Series Code	Version		Voltage (V) R is decimal		Configuration	Capacitance (μ F)				Custom Variant	
P = Pack			5R0 = 5.0V		V = Vertical - or - H = Horizontal	Value	Multiplier				
						Example: 474 = 47 x 10 ⁴ μ F or 0.47 F					

PACKAGING INFORMATION	PART MARKING
Standard packaging: Bulk, 100 units per package. Larger bulk packages available upon request.	Manufacturer Capacitance (F) Max. Operating Voltage (V) Series Code (or part number) Polarity

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