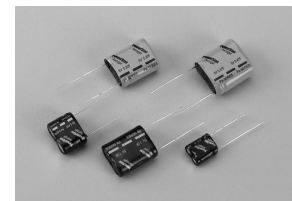


Description

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.



LEADED DEVICE

SERIES	FEATURES AND BENEFITS		APPLICATIONS
	Generic	Specific	
PM	5.0 volts, 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

Working Voltage (maximum)	5.0 volts
Surge Voltage	5.5 volts
Nominal Capacitance Range	0.1F to 3F
Capacitance Tolerance	-20% to +80% (20°C)
Operating Temperature Range	-40°C to 60°C
Extended Operating Temperature Range	-40°C to 85°C (Max. working voltage: 3.9V)

STANDARD PRODUCTS

HIGH ENERGY DENSITY & ULTRA LOW ESR (PM SERIES)

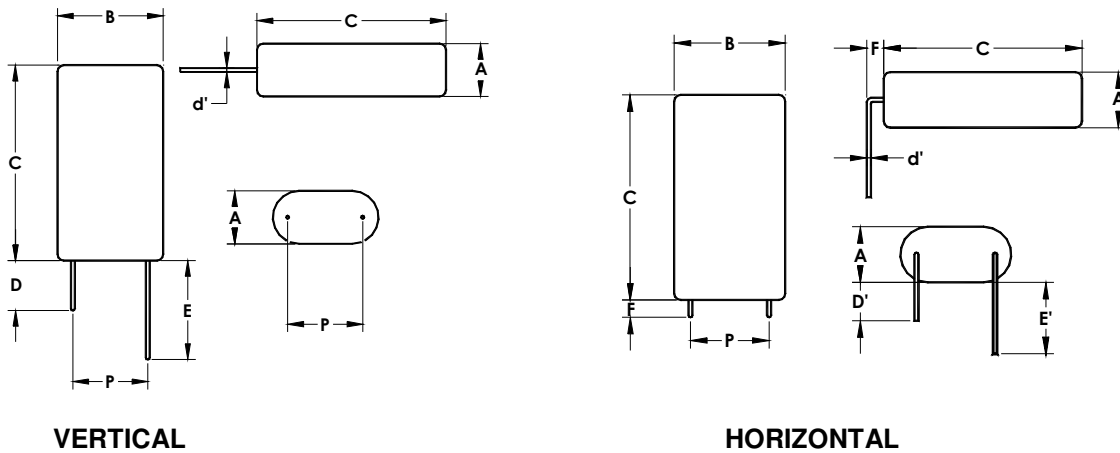
Nominal Capacitance (F)	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance)		Nominal Leakage Current (μ A) @ 20°C after 100 Hours	Nominal Dimensions	Typical Mass (grams/piece)
		Measured @ 1kHz	Measured @ DC			
0.1	PM-5R0V104-R PM-5R0H104-R	1.25	1.5	TBD	5.5 x 10.8 x 12.5 mm	1.1
0.47	PM-5R0V474-R PM-5R0H474-R	0.30	0.40	TBD	8.5 x 16.8 x 14.0 mm	2.4
1.0	PM-5R0V105-R PM-5R0H105-R	0.15	0.20	TBD	8.5 x 16.8 x 21.5 mm	3.5
1.5	PM-5R0V155-R PM-5R0H155-R	0.07	0.10	15	10.5 x 20.8 x 22.5 mm	5.4
3.0	PM-5R0V305-R PM-5R0H305-R	0.05	0.07	20	10.5 x 20.8 x 32 mm	7.8

PERFORMANCE

Parameter	Capacitance Change (% of initial specified value)	ESR (% of initial specified value)
Life (1000 hrs @ 60°C @ 5 volts DC)	≤ 30 %	≤ 200 %
Storage- Low and High Temperature (1000 hrs @ -40°C and 85°C)	≤ 30 %	≤ 200 %

DIMENSIONS (mm)										
Part Number	A	B	C	d'	D	D'	E	E'	F	P
PM-5R0V104-R PM-5R0H104-R	6.0	11.3	13.0	0.5	20	15	25	20	2.0	7.3
PM-5R0V474-R PM-5R0H474-R	9.0	17.3	14.5	0.5	20	15	25	20	2.0	11.8
PM-5R0V105-R PM-5R0H105-R	9.0	17.3	22.0	0.5	20	15	25	20	2.0	11.8
PM-5R0V155-R PM-5R0H155-R	11.0	21.3	23.0	0.6	20	15	25	20	2.0	5.3
PM-5R0V305-R PM-5R0H305-R	11.0	21.3	32.5	0.6	20	15	25	20	2.0	5.3
<i>Tolerances</i>	Maximum			± 0.02	Minimum				± 0.5	

Note (1): Longer lead is positive.



PART NUMBERING SYSTEM										
P	M	-	5	R	0				-	R
Series Code	Version		Voltage (V) R is decimal		Configuration		Capacitance (μ F)			RoHS Compliant
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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