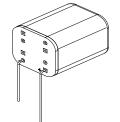


PowerStor[®] Aerogel Capacitors Custom PM Series

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 A	ND BENEFITS	APPLICATIONS		
OLIVIEO	Generic	Specific			
РМ	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	Part Number	Working Voltage	Nominal (Equivalent Ser	ESR (Ω) ies Resistance)	Nominal Dimensions	Typical Mass (grams/piece)			
(F) (Maximum)		(iviaximum)	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 ESR (% of initial specified value) (% of initial specified value) (% of initial specified value)							
Life (1000 hrs @ 60°C & rated voltage, DC)	≤ 30 %	\leq 200 %					
Storage- Low and High Temperature (1000 hrs @ -40°C and 60°C)	≤ 30 %	≤ 200 %					

DIMENSIONS (mm)								
Part Number	A	В	C	ď	D	E	F	Р
PM-10R0H504-1	17.5	17.5	22.0	0.5	13	18	2.0	8.7
Tolerances	Maximum			± 0.02	Minim	um	± 0).5
relerances		maximan		10.02		ann	0	

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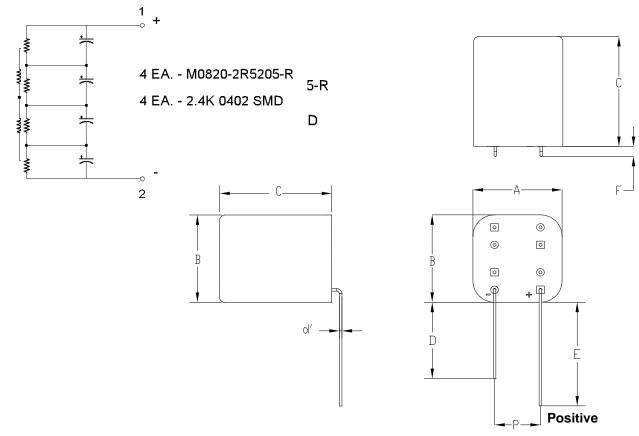
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PowerStor[®] **Aerogel Capacitors Custom PM Series**

PM-10R0H474-1



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

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

Rev X1 09/08

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