



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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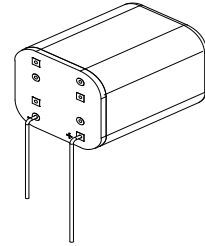
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Description

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 |

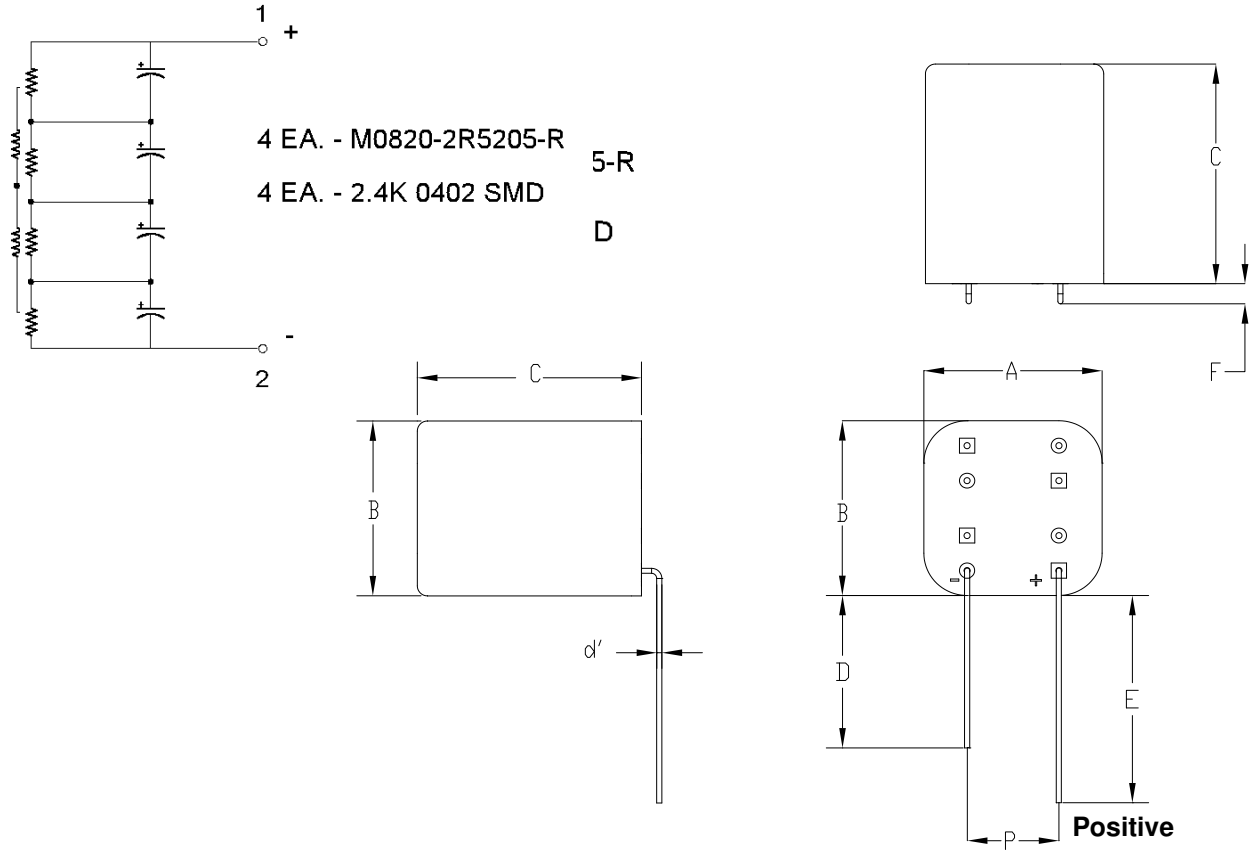
PERFORMANCE

| 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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