

Supercapacitors

M Series

PRELIMINARY

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 milliseconds.

M Series

The new PowerStor M Series of supercapacitors offers high capacitance and ultra-low equivalent series resistance in 8mm, 10mm and 13mm diameter can sizes.



Q4-08 Availability

This new M Series is due for launch in the fourth quarter of 2008. Contact the factory for details of sample availability and pricing.

Specifications	
Working Voltage	2.5V
Surge Voltage	3.0V
Nominal Capacitance	1.0F to 9.0F
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: 2.0V)

Standard Product					
Capacitance (F)	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance) Measured @		Nominal Dimensions (mm)	
		1kHz	DC	Diameter	Length
1	M0810-2R5105-R	0.150	0.200	8	13
2	M0820-2R5205-R	0.075	0.100	8	20
3	M1020-2R5305-R	0.035	0.050	10	20.5
6	M1030-2R5605-R	0.025	0.035	10	30
9	M1325-2R5905-R	0.020	0.030	13	26

Performance		
Parameter	Capacitance Change (% of initial measured value)	ESR (% of initial measured value)
Life (1000 hrs @ 60°C @ 2.5Vdc)	≤ 30 %	≤ 200 %
Storage - Low and High Temperature (1000 hrs @ -40°C and 60°C)	≤ 30 %	≤ 200 %

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