Specifications







Eaton M1020-2R5305-R

Eaton M supercapacitor, 2.5 V, 3 F, 0.050 Ω , CYLINDRICAL

General specifications		
PRODUCT NAME	Eaton M cylindrical cell supercapacitor	
CATALOG NUMBER	M1020-2R5305-R	
UPC	051712207829	
PRODUCT HEIGHT	21 mm	
PRODUCT DIAMETER	10.5 mm	
PRODUCT WEIGHT	2.8 g	
COMPLIANCES	RoHS Compliant	
CERTIFICATIONS	UL Recognized	



Product specifications	
PACKING	Bulk
CONTACT CONFIGURATION	Vertical
SIZE	10 x 22 mm
TERMINALS	Through hole
SHAPE	Cylindrical
DC EQUIVALENT SERIES RESISTANCE (ESR)	0.05 Ω
OPERATING TEMPERATURE RANGE	-40 °C to +60 °C
SERIES	M
MAX VOLTAGE	2.5 V
CAPACITANCE	3 F
LEAKAGE	0 μ Α
THERMAL RESISTANCE	73 °C/W
ENERGY	9.4 J
POWER	15 W
PEAK CURRENT (1 SEC)	3.3 A
CONTINUOUS CURRENT (15 °C RISE)	2 A
CAPACITANCE END OF LIFE RATING	70%
ESR END OF LIFE RATING	200%
GRADE	Commercial

Resources	
APPLICATION NOTES	Supercapacitor soldering guidelines
	High power supercapacitors enable new power applications and replace batteries
BROCHURES	Eaton's electronics components portfolio overview brochure
	Supercapacitor selection guide
MANUALS AND USER GUIDES	Methods for measuring capacitance, inflow current, internal resistance and ESR
PRODUCT NOTIFICATIONS	Shipping change of M, PM, HV, PHV and XV supercapacitors
	Logo and branding changes
	Shelf Life of supercapacitor products product notice
	Supercapacitor active balance design product notice
	(PCN16044) Supercapacitors definition of the -R part number suffix change
	(PCN15011m) Shipping box and external and internal label update
SPECIFICATIONS AND DATASHEETS	<u>Eaton Specification Sheet -</u> <u>M1020-2R5305-R</u>
	Eaton M supercapacitor data sheet

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE	



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