

# Specifications



## Eaton M1020-2R5305-R

Eaton M supercapacitor, 2.5 V, 3 F, 0.050  $\Omega$ , CYLINDRICAL

### General specifications

<b>PRODUCT NAME</b>	Eaton M cylindrical cell supercapacitor
<b>CATALOG NUMBER</b>	M1020-2R5305-R
<b>UPC</b>	051712207829
<b>PRODUCT HEIGHT</b>	21 mm
<b>PRODUCT DIAMETER</b>	10.5 mm
<b>PRODUCT WEIGHT</b>	2.8 g
<b>COMPLIANCES</b>	RoHS Compliant
<b>CERTIFICATIONS</b>	UL Recognized
<b>PRODUCT TYPE</b>	Cylindrical cell supercapacitor

## Product specifications

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

## Resources

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

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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