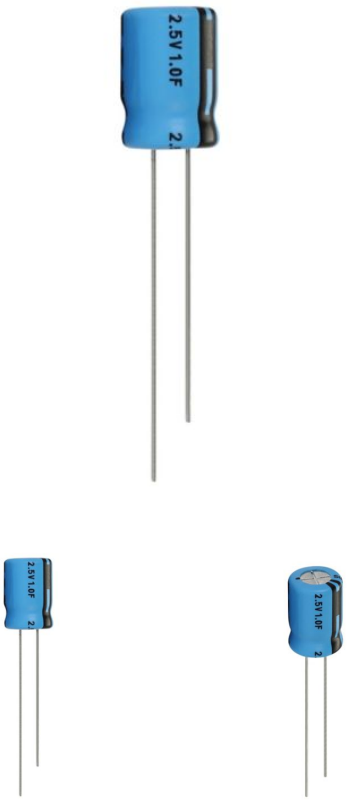
Specifications



Eaton M0810-2R5105-R

Eaton M supercapacitor, 2.5 V, 1 F, 0.25 Ω, CYLINDRICAL

General specifications	
PRODUCT NAME	Eaton M cylindrical cell supercapacitor
CATALOG NUMBER	M0810-2R5105-R
UPC	051712207768
PRODUCT HEIGHT	13.5 mm
PRODUCT DIAMETER	8.5 mm
PRODUCT WEIGHT	1.2 g
COMPLIANCES	RoHS Compliant
CERTIFICATIONS	UL Recognized
PRODUCT TYPE	Cylindrical cell supercapacitor

Powering Business Worldwide

Downloaded from Arrow.com.

Product specifications

PACKING	Bulk
CONTACT CONFIGURATION	Vertical
SIZE	8 x 13 mm
TERMINALS	Through hole
SHAPE	Cylindrical
DC EQUIVALENT SERIES RESISTANCE (ESR)	0.25 Ω
OPERATING TEMPERATURE RANGE	-40 °C to +60 °C
SERIES	M
MAX VOLTAGE	2.5 V
CAPACITANCE	1 F
LEAKAGE	0 µ A
THERMAL RESISTANCE	120 °C/W
ENERGY	3.1 J
POWER	3 W
PEAK CURRENT (1 SEC)	1 A
CONTINUOUS CURRENT (15 °C RISE)	0.7 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	(PCN16044) Supercapacitors definition of the -R part number suffix change Logo and branding changes (PCN15011m) Shipping box and external and internal label update Shelf Life of supercapacitor products product notice Supercapacitor active balance design product notice Shipping change of M, PM, HV, PHV and XV supercapacitors
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - M0810-2R5105-R Eaton M supercapacitor data sheet

Downloaded from Arrow.com.

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2026 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

Downloaded from Arrow.com.