

Specifications



Eaton HV1020-2R7505-R

Eaton HV supercapacitor, 2.7 V, 5 F, 0.04 Ω , CYLINDRICAL

General specifications

PRODUCT NAME	Eaton HV cylindrical cell supercapacitor
CATALOG NUMBER	HV1020-2R7505-R
UPC	051712274982
PRODUCT HEIGHT	21.2 mm
PRODUCT DIAMETER	10.5 mm
PRODUCT WEIGHT	2.3 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)	0.04 Ω
OPERATING TEMPERATURE RANGE	-40 °C to +65 °C
SERIES	HV
MAX VOLTAGE	2.7 V
CAPACITANCE	5 F
LEAKAGE	20 μ A
THERMAL RESISTANCE	73 °C/W
ENERGY	18.2 J
POWER	21.9 W
PEAK CURRENT (1 SEC)	5.6 A
CONTINUOUS CURRENT (15 °C RISE)	2.3 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 supercapacitors provide power delivery for smart metering](#)

[Next-generation wireless standards are transforming global connectivity](#)

[Eaton makes smart grids work infographic](#)

[Supercapacitor selection guide](#)

[Eaton's electronics components portfolio overview brochure](#)

[HV Supercapacitor product profile](#)

CROSS REFERENCES

[Eaton - Maxwell supercapacitor cross reference guide](#)

MANUALS AND USER GUIDES

[Methods for measuring capacitance, inflow current, internal resistance and ESR](#)

[Shelf Life of supercapacitor products product notice](#)

[\(PCN16044\) Supercapacitors definition of the -R part number suffix change](#)

PRODUCT NOTIFICATIONS

[Logo and branding changes](#)

[\(PCN16020\) HB HV supercapacitors packaging update](#)

[\(PCN15011m\) Shipping box and external and internal label update](#)

[Supercapacitor active
balance design product
notice](#)

[Shipping change of M, PM,
HV, PHV and XV
supercapacitors](#)

[Supercapacitor lot code
and date code change](#)

**SPECIFICATIONS AND
DATASHEETS**

[Eaton HV supercapacitor
data sheet](#)

[Eaton Specification Sheet -
HV1020-2R7505-R](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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