

HB Supercapacitor



High energy supercapacitors replace batteries in backup power applications



HB family

High capacitance Eaton HB family offers high energy storage capability in compact package sizes.

High capacitance

High capacitance (3 F to 110 F) enables long term power backup and high peak current capability.

Low Equivalent Series Resistance (ESR)

ESR levels as low as 20 m Ω ensure minimal voltage drop during peak current demand, increasing the amount of power that can be delivered to the load.

Long operating life

With an achievable operating life of 10+ years, Eaton supercapacitors will not need replacing and will last the equipment's service life.

Configurable

Supercapacitors can be configured in series and parallel to increase the voltage rating and energy storage capability. Package solutions are available, please consult your Eaton representative for details.

Environmentally friendly

The HB family is RoHS compliant, halogen free and lead free, and contain no hazardous materials to present no end-of-life disposal issues.

Applications

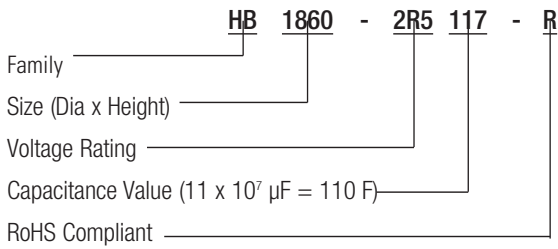
- RAID Data storage
- Solid state hard drives
- Tape drives
- Telecom 'Triple Play'
- Instant charge toys

EATON

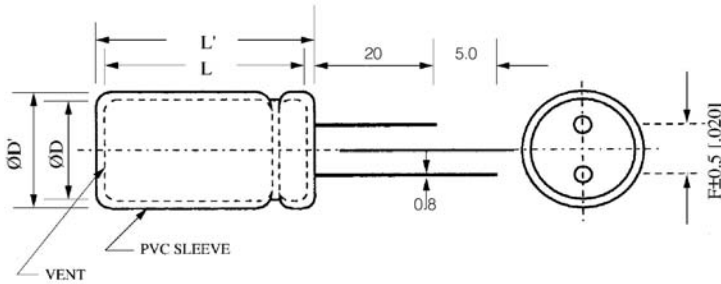
Powering Business Worldwide

Specifications

Catalog Symbol



Dimensions



Note: Longer lead is positive.

Dimensions (mm)					
Part Number	D	D'	L	'	F
HB0820-2R5305-R	8.0	8.5	20.5	21.0	3.5
HB1020-2R5505-R	10.0	10.5	21.8	22.3	5.0
HB0830-2R5605-R	8.0	8.5	30.5	31.0	5.0
HB1030-2R5106-R	10.0	10.5	31.0	31.5	5.0
HB1325-2R5156-R		13.5	27.9	28.4	5.0
HB1625-2R5256-R		16.5	27.9	28.4	7.5
HB1635-2R5356-R		16.5	37.5	38.0	7.5
HB1840-2R5606-R		18.5	41.5	42.0	7.5
HB1860-2R5117-R		18.5	59.5	60.0	7.5

Specifications

Working Voltage	2.5V
Surge Voltage	3.0V
Nominal Capacitance Range	3F to 110F
Equivalent Series Resistance @ 100Hz	0.160 to 0.020Ω
Capacitance Tolerance	-10% to +30% (20°C)
Operating Temperature Range	-25°C to 70°C
Extended Operating Temperature Range	-25°C to 85° (with linear voltage derating to 2.1V @ 85°C)

Technical Application Assistance

E-mail capacitortech@eaton.com

Data Sheets: www.eaton.com/electronics

Order samples on-line: <https://tools.eatonelectronics.com/request-form>

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For more information visit:
www.eaton.com/supercapacitors