PowerStor®

High Energy Supercapacitors Replace Batteries in Back-Up Power Applications

High Capacitance PowerStor® HB Series Offers High Energy Storage Capability in Compact Package Sizes

High Capacitance

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

Low Equivalent Series Resistance (ESR)

ESR levels as low as 20mΩ 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, PowerStor 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 Cooper Bussmann representative for details.

Environmentally Friendly

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

COOPER Bussmann

HB Series Specifications

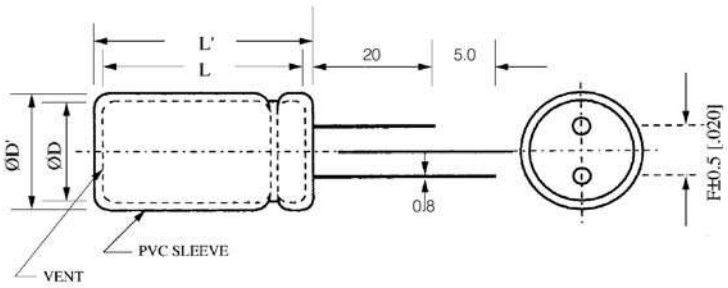
Catalog Symbol

HB 1860 - 2R5 117 - R

- Series: HB
- Size (Dia x Height): 1860
- Voltage Rating: 2R5
- Capacitance Value (11 x 10^7 µF = 110F): 117
- RoHS Compliant: R



HB Series Package Dimensions



Note: Longer lead is positive.

Dimensions (mm)					
Part Number	D	D'	L	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	13.0	13.5	27.9	28.4	5.0
HB1625-2R5256-R	16.0	16.5	27.9	28.4	7.5
HB1635-2R5356-R	16.0	16.5	37.5	38.0	7.5
HB1840-2R5606-R	18.0	18.5	41.5	42.0	7.5
HB1860-2R5117-R	18.0	18.5	59.5	60.0	7.5

Cooper Bussmann PowerStor® supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials.

The PowerStor HB Series provides high capacitance combined with low ESR, making it ideal for battery replacement and other long term hold-up applications.

Typical Applications

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

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°C (with linear voltage derating to 2.1V @ 85°C)

Order samples online - www.cooperbussmann.com

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