

Supercapacitors

XB Series



Description

Cooper Bussmann PowerStor supercapacitors are unique, ultra-high capacitance devices utilizing electrochemical double layer capacitor (EDLC) construction combined with new, high performance materials. This combination of advanced technologies allows Cooper Bussmann to offer a wide variety of capacitor solutions tailored to specific applications that range from a few micro-amps for several days to several amps for milliseconds.

Features & Benefits

- Over 10-Year Operating Life at Room Temperature
- Ultra Low ESR for High Power Density
- Large Capacitance for High Energy Density
- Long Cycle Life
- UL Recognized

Applications

- Hybrid Battery or Fuel Cell Systems
- High Pulse Current Applications
- UPS / Hold Up Power



Specifications						
Capacitance	300F to 400F					
Working Voltage	2.5V					
Surge Voltage	2.85V					
Capacitance Tolerance	-10% to +10%					
Operating Temperature Range	-25°C to 70°C					

	Standard Product							
			Nominal E	ESR (m Ω)				
			(Equivalent Seri	es Resistance)				
C	apacitance (F)	Part Number	1kHz (ref)	DC Resistance	Nominal Dimensions (mm)	Typical Mass (grams/piece)		
	300	XB3550-2R5307-R	6.0	7.0	$\emptyset = 35; L = 50$	69		
	400	XB3560-2R5407-R	4.0	4.5	$\emptyset = 35; L = 60$	80		

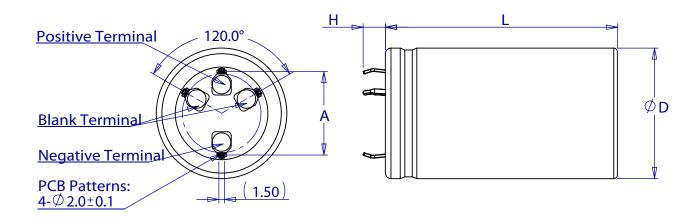
Performance						
Capacitance Change ESR						
Parameter	(% of initial specified value)	(% of initial specified value)				
Life (1500 hrs @ maximum rated voltage and temperature)	≤ 20 %	≤ 200 %				
Storage - Low and High Temperature (1500 hrs @ -40°C and 70°C)	≤ 20 %	≤ 200 %				



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Dimensions (mm)							
Part Number D L H							
XB3550-2R5307-R	35	53.0	6	22.5			
XB3560-2R5407-R	35	63.0	6	22.5			
Tolerances		± 0.1					



Part Numbering System										
ХВ					-	□ R □				-R
Series					Voltage (V)	Capacitance (μF)				
Code	Dimensions				R = Decimal	Va	Value Multiplier		RoHS	
XB = Series	Diameter Length			2R5 = 2.5V	Example: $407 = 40 \times 10^7 \mu F$ or $400F$		Compliant			

Packaging Information

Standard packaging: 20 pieces per box

Part Marking

Manufacturer Capacitance (F) Nominal Working Voltage (V) Series Code (or part number) Polarity

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