PowerStor[®]

Supercapacitors KSL Series



Surface Mount Device

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

- Eco-friendly
- Compatible with lead free reflow solder (260°C peak)
- Long cycle life
- High-rated voltage
- · Small-sized and large capacity

Applications

- RTC back-up (MP3, PMP, MD player) DSC Wireless & Cellular phones, pagers, PDAs, etc.
- · Solar watch, solar calculators

Specifications					
Working Voltage	3.3V				
Surge Voltage	3.3V				
Nominal Capacitance Range	0.07F				
Capacitance Tolerance	-20% to +80% (20°C)				
Operating Temperature Range	-25°C to 60°C				

Standard Products							
Nominal Capacitance	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance)	Nominal Dimensions (mm)		Typical Mass (grams/1 piece)		
(F)		Measured @ 1kHz	Diameter	Thickness	,		
0.07	KSL-3R3703E-R	100	4.8	1.4	0.08		
0.07	KSL-3R3703S-R	100	4.8	1.4	0.08		

Performance						
Parameter	Capacitance Change	Maximum ESR (Ω)				
	(% of initial measured value)	Measured @ 1kHz				
Life (500 hrs @ 60°C @ 3.3Vdc)	<u>≤</u> 30	2,000				
Storage - Low and High Temperature	<u>≤</u> 30	2,000				
(1000 hrs @ -25°C and 60°C)						

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Dimensions - mm



Part Numbering System										
К	SL	-	3	R	3	70	3		-	R
Series Code	Version			/oltage (V) is decima		Capacita	unce (μF)	Terminal Type		RoHS
					Value	Multiplier			Compliant	
K = Coin Cell SL = SMT, Minature		3R3 = 3.3V		Example: 703 = 70 x 10³µF or 0.07F		E = Standard S = Small		Compliant		

Packaging Information Tape Dimensions (mm) Standard packaging: Tape & Reel, 4,000 units per reel 4±0.1 1.75±0.10 Ø1.5^{+0.1} ⊢ 2±0. (-)Part Marking ÷ -0 ÷ 0 -\$ 9.25±0.10 Manufacturer 16±0.3 Ð **Product Series & Size** 6.75 (\mathbf{f}) 8±0.1

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