

Supercapacitors KS 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
- · 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
- · Solar watch, solar calculators



	Specifications	
Working Voltage	2.8V	3.3V
Surge Voltage	2.8V	3.3V
Nominal Capacitance Range	0.33F	0.22F
Capacitance Tolerance	-20% to +80% (20°C)	-20% to +80% (20°C)
Operating Temperature Range	-25°C to 70°C	-10°C to 60°C

Standard Products							
Nominal Capacitance	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance)	Nominal Dimensions (mm) Typical M (grams/1 p				
(F)		Measured @ 1kHz	Diameter	Thickness	.,		
0.33	KS-2R8334-R	100	6.8	2.1	0.25		
0.22	KS-3R3224-R	200	6.8	2.1	0.25		

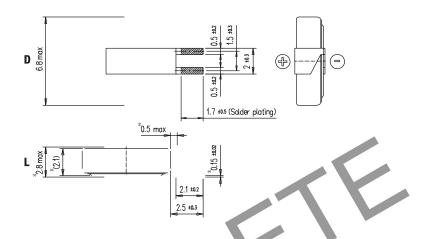
Performance						
Parameter	Capacitance Change	ESR				
	(% of initial measured value)	(% of initial specified value)				
Life (1000 hrs @ 70°C @ 3.3Vdc)	≤ 30	≤ 400				
Storage - Low and High Temperature	≤ 30	≤ 400				
(1000 hrs @ -25°C and 70°C)						



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Dimensions (mm)						
Part Number	D	L				
KS-2R8334-R	6.8	2.1				
KS-3R3224-R	6.8	2.1				



Part Numbering System										
K	S	_	3	R	3	22		4	_	R
Series	Version	Voltage (V)		Uapacitatice (µi)		Capacitance (μF)				
Code			R is decimal					1	RoHS	
	.,					Value		Multiplier		Compliant
K = Coin Cell S = SMT			3	R3 = 3.3	V		Example:			Compliant
						224	$224 = 22 \times 10^4 \mu F \text{ or } 0.22F$			

Packaging Information

Standard packaging: Bulk, 1000 units per pack with 100 units per tray

Part Marking

Manufacturer **Product Series & Size**

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