

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.

RoHS
2002/95/EC

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 70°C

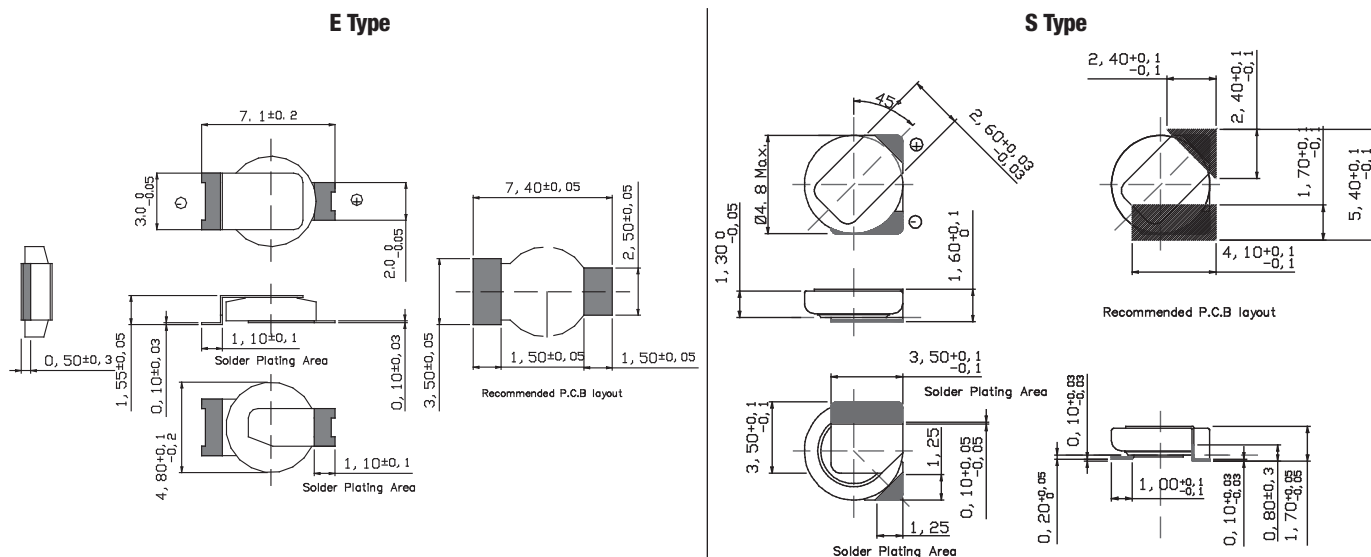
Standard Products

Nominal Capacitance (F)	Part Number	Nominal ESR (Ω) (Equivalent Series Resistance) Measured @ 1kHz	Nominal Dimensions (mm)		Typical Mass (grams/1 piece)
			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 (% of initial measured value)	Maximum ESR (Ω) Measured @ 1kHz
Life (1000 hrs @ 70°C @ 3.3Vdc)	≤ 30	2,000
Storage - Low and High Temperature (1000 hrs @ -25°C and 70°C)	≤ 30	2,000

Dimensions - mm



Part Numbering System

Part Numbering System									
K	SL	—	3	R	3	70	3	—	R
Series Code	Version		Voltage (V) R is decimal			Capacitance (μF)		Terminal Type	RoHS Compliant
K = Coin Cell	SL = SMT, Minature		3R3 = 3.3V	Value	Multiplier	E = Standard S = Small			
				Example: 703 = 70 x 10 ³ μF or 0.07F					

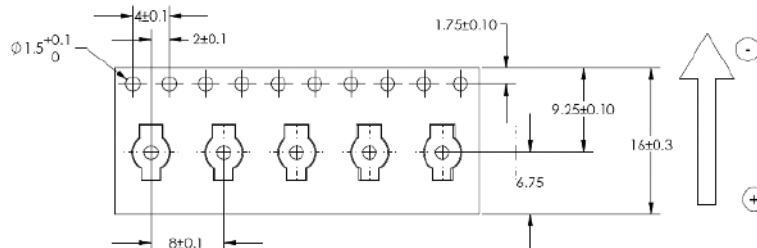
Packaging Information

Standard packaging: Tape & Reel, 4,000 units per reel

Part Marking

Manufacturer
Product Series & Size

Tape Dimensions (mm)



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