



**THE DATASHEET OF
KS-3R3224-R**



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 |

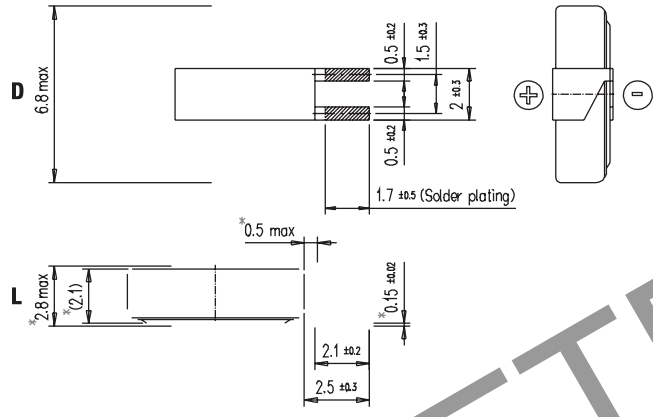
Standard Products

| Nominal Capacitance (F) | Part Number | Nominal ESR (Ω) (Equivalent Series Resistance) Measured @ 1kHz | Nominal Dimensions (mm) | | Typical Mass (grams/1 piece) |
|-------------------------|-------------|---|-------------------------|-----------|------------------------------|
| | | | 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 (% of initial measured value) | ESR (% of initial specified value) |
|---|---|---------------------------------------|
| Life (1000 hrs @ 70°C @ 3.3Vdc) | ≤ 30 | ≤ 400 |
| Storage - Low and High Temperature (1000 hrs @ -25°C and 70°C) | ≤ 30 | ≤ 400 |

| 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 Code | Version | | Voltage (V) R is decimal | | | Capacitance (µF) | | | RoHS Compliant |
| K = Coin Cell | S = SMT | | 3R3 = 3.3V | | | Value | Multiplier | | |
| | | | | | | Example: 224 = 22 x 10 ⁴ µF 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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