

ELECTRIC DOUBLE LAYER CAPACITOR DATA SHEET



ZST 2.7V 3.3F

Radial Terminal Type



FEATURES:

- High temperature
- Wide temperature range (-40 to +85°C)
- RoHS compliant.
- IATF 16949 compliant

TYPICAL APPLICATIONS:

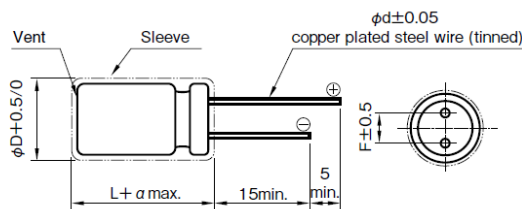
- SSD (Solid state drives)
- AMR (Automatic meter record)
- Wireless transmitters
- Emergency lighting
- Medical devices
- Smart metering



SPECIFICATIONS:

| ITEM | PERFORMANCE CHARACTERISTICS | | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------|
| Category Temperature Range | -40°C to +85°C | | |
| Rated Voltage Range | 2.7V | | |
| Rated Capacitance Range | 3.3F | | |
| Capacitance Tolerance | -10% to +30%, 20°C | | |
| Stability at Low Temperature | Capacitance(-40°C) / Capacitance(+20°C) x 100 ≥ 70% ESR(-40°C) / ESR(+20°C) ≤ 4 | | |
| Loading Life | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C. | Capacitance Range | Within ±30% of the initial capacitance value |
| | | ESR | 300% or less than the initial specified value |
| Shelf Life | The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 1000 hours at 85°C. | Capacitance Range | Within ±30% of the initial capacitance value |
| | | ESR | 300% or less than the initial specified value |
| Humidity Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH. | Capacitance Range | Within ±30% of the initial capacitance value |
| | | ESR | 300% or less than the initial specified value |
| Marking | Printed with white color letter on blue sleeve. | | |

PHYSICAL PROPERTIES:



| φD | L | φd | F | α |
|----|----|-----|-----|-----|
| 8 | 20 | 0.6 | 3.5 | 1.5 |

STANDARD RATINGS:

| Voltage (V) | Capacitance (F) | Max. ESR (mΩ) | Leakage Current (mA) | Nominal Mass (g) | Gravimetric Specific Energy (Wh/kg) | Usable Specific Power (kW/kg) | Impedance Match Specific Power (kW/kg) | Part Number |
|-------------|-----------------|---------------|----------------------|------------------|-------------------------------------|-------------------------------|----------------------------------------|-----------------------|
| | | AC (1KHz) | 72h | | | | | |
| 2.7 | 3.3 | 80 | 0.014 | 1.5 | 2.2 | 3.8 | 8.1 | UCZST2R7335QRH080020E |