# ELECTRIC DOUBLE LAYER CAPACITOR DATA SHEET

# Superb-S
## 2.7V 1F

**Radial Terminal Type**

### FEATURES:

- Standard Product
- Wide temperature range (–40 to +65°C).
- RoHS compliant.
- IATF 16949 compliant

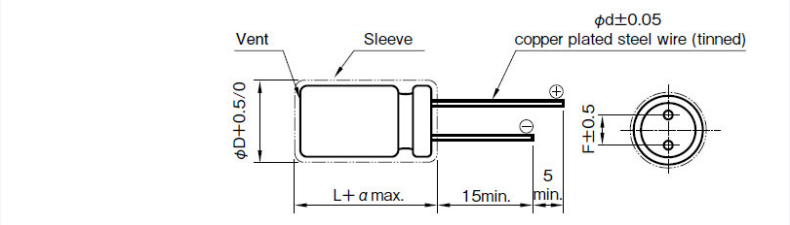
### TYPICAL APPLICATIONS:

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

### SPECIFICATIONS:

| ITEM | PERFORMANCE CHARACTERISTICS |
|---|---|
| **Category Temperature Range** | -40℃ to +65℃ |
| **Rated Voltage Range** | 2.7V |
| **Rated Capacitance Range** | 1F |
| **Capacitance Tolerance** | –10% to +30%, 20℃ |
| **Stability at Low Temperature** | Capacitance(-40℃) / Capacitance(+20℃) x 100 ≥70%  ESR(-40℃) / ESR(+20℃) ≤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 65°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 65°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 |
|---|---|---|---|---|
| 6.3 | 12 | 0.6 | 2.5 | 1.0 |

### STANDARD RATINGS:

| Voltage (V) | Capacitance (F) | Max. ESR (mΩ) AC (1KHz) | Leakage Current (mA) 72h | Nominal Mass (g) | Gravimetric Specific Energy (Wh/kg) | Usable Specific Power (kW/kg) | Impedance Match Specific Power (kW/kg) | Part Number |
|---|---|---|---|---|---|---|---|---|
| 2.7 | 1 | 220 | 0.008 | 0.65 | 1.5 | 2.9 | 6.2 | UCZSS2R7105NRH060012E |