ELECTRIC DOUBLE LAYER CAPACITOR DATA SHEET

Superb-S
2.7V 7F

Radial Terminal Type

FEATURES:

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

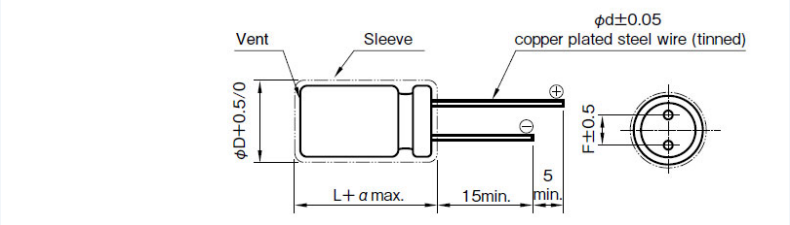
TYPICAL APPLICATIONS:

- 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	7F
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
10	20	0.6	5	2

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	7	55	0.02	2.1	3.3	5.2	10.8	**UCZSS2R7705NRH100020E**