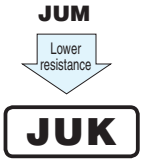
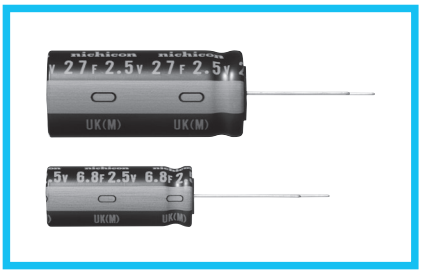
# JUK

Radial Lead Type, Lower Resistance

- Lower resistance type of JUM.
- Suited for Smart Meters.
- Lower temperature range (– 40 to +70°C).
- Compliant to the RoHS directive (2011/65/EU).

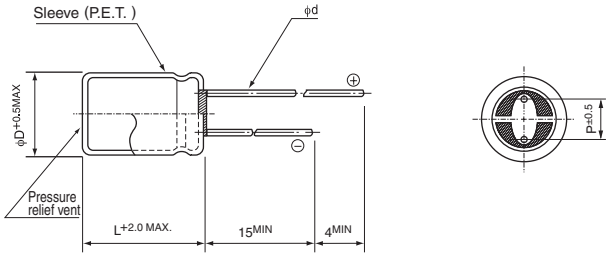


## ■Specifications

| Item | Performance Characteristics | | |
|---|---|---|---|
| Category Temperature Range | – 40 to +70°C | | |
| Rated Voltage | 2.5V | | |
| Rated Capacitance | 6.8 to 27F See Note | | |
| Capacitance Tolerance | ±20% , 20°C | | |
| Stability at Low Temperature | Capacitance (– 40°C) / Capacitance (+20°C) ×100 ≧ 70% ESR (– 40°C) / ESR (+20°C) ≦ 7 | | |
| ESR, DCR* | Refer to the table below (20°C). *DC internal resistance | | |
| Endurance | 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 70°C. | Capacitance change | 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 70°C. | Capacitance change | 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 change | Within ±30% of the initial capacitance value |
| | | ESR | 300% or less than the initial specified value |
| Marking | Printed with white color letter on black sleeve. | | |

## ■Drawing




(mm)

| φD | 12.5 | 16 | 18 |
|---|---|---|---|
| P | 5.0 | 7.5 | 7.5 |
| φd | 0.8 | 0.8 | 0.8 |

## Type numbering system (Example : 2.5V 6.8F)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|
| J | U | K | 0 | E | 6 | 8 | 5 | M | H | D |

- 9 – 11: Configuration ※
- 9: Capacitance tolerance (±20%)
- 6 – 8: Rated capacitance (6.8F)
- 4 – 5: Rated voltage (2.5V)
- 3: Series name
- 1 – 2: Type

※Configuration

| φ D | Pb-free lead finishing Pb-free PET sleeve |
|---|---|
| 12.5 to 18 | HD |

• Please refer to page 20 about the end seal configuration.

## ■Dimensions

| Rated Voltage ( Code ) | Rated Capacitance (F) | Code | ESR (Ω) (at 1kHz) | DCR※ Typical (Ω) | Case size φ D × L (mm) |
|---|---|---|---|---|---|
| 2.5V (0E) | 6.8 | 685 | 0.075 | 0.085 | 12.5 × 31.5 |
| | 12 | 126 | 0.060 | 0.065 | 16 × 31.5 |
| | 18 | 186 | 0.055 | 0.055 | 18 × 31.5 |
| | 27 | 276 | 0.040 | 0.035 | 18 × 40 |

※ The listed DCR value is typical and therefore not a guaranteed value.

Note :
The capacitance calculated from discharge time (ΔT) with constant current ( i ) after 30minuite charge with rated voltage (2.5V).
The discharge current ( i ) is 0.01 × rated capacitance (F).
The discharge time (ΔT) measured between 2V and 1V with constant current.
The capacitance calculated bellow.

$$\text{Capacitance (F)} = i \times \Delta T$$