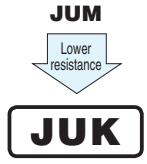
ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

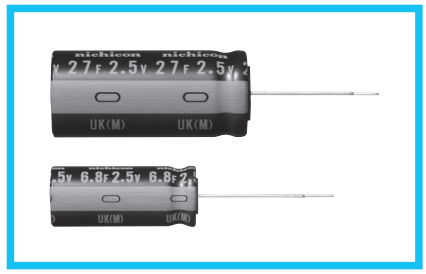
nichicon

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,(EU)2015/863).

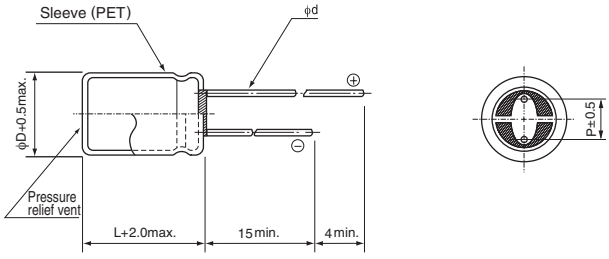




■Specifications

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

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

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

- Configuration ※
- Capacitance tolerance (±20%)
- Rated capacitance (6.8F)
- Rated voltage (2.5V)
- Series name
- Type

※Configuration

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

■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.

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