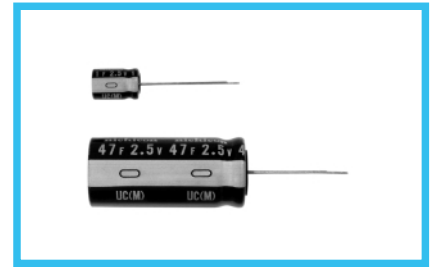
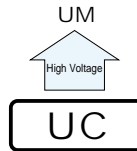


UC Radial Lead Type

series

- Excellent in voltage holding property.
- Suitable for quick charge and discharge.
- Wide temperature range (– 25 to +70°C).
- Compliant to the RoHS directive (2002/95/EC).

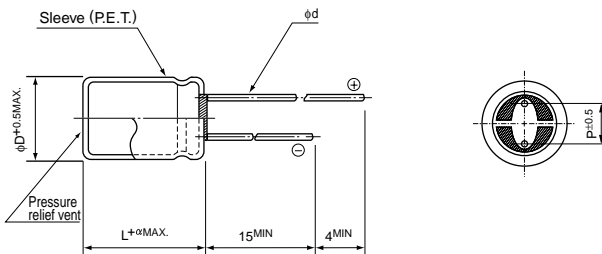
Products which are scheduled to be discontinued.
Not recommended for new designs



Specifications

Item	Performance Characteristics	
Category Temperature Range	– 25 to +70°C	
Rated Voltage Range	2.5V	
Rated Capacitance Range	0.47 to 47F See Note	
Capacitance Tolerance	±20% (20°C)	
Leakage Current	0.5C (mA) [C : Rated Capacitance(F)] (After 30 minutes' application of rated voltage, 2.5V)	
Stability at Low Temperature	Capacitance (– 25°C) / Capacitance (+20°C) ×100 ≥ 70%	
ESR, DCR*	Refer to the list 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
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.	300% or less than the initial specified value
		Leakage current
		Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.	Capacitance change
		Within ±30% of the initial capacitance value
		ESR
Marking	Printed with white color letter on black sleeve.	300% or less than the initial specified value
		Leakage current
		Less than or equal to the initial specified value

Drawing



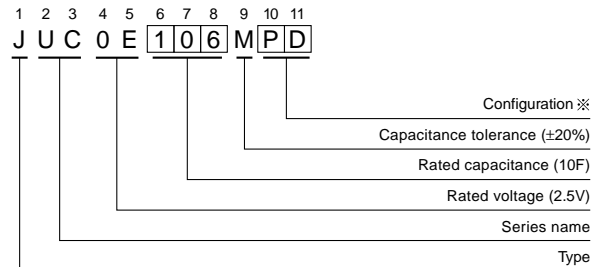
	φD	6.3	8	10	12.5	16	18
P	2.5	3.5	5.0	5.0	7.5	7.5	
φd	0.5	0.6	0.6※1	0.6※2	0.8	0.8	

※1 In case φ10 × 40, lead dia φd=0.8

※2 In case L>25 for the φ12.5 dia unit, lead dia φd=0.8

• Please refer to page 20 for end seal configuration.

Type numbering system (Example : 2.5V 10F φ10×40L)



※ Configuration

φ D	Pb-free lead finishing Pb-free PET sleeve
6.3	ED
8 · 10	PD
12.5 to 18	HD

Dimensions

Rated Voltage (Code)	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR (Ω)	Case size φ D × L (mm)
2.5V (0E)	0.47	474	7	11	6.3 × 9
	1.0	105	2	5	8 × 11.5
	2.2	225	2	2	8 × 20
	3.3	335	1	1.5	10 × 20
	4.7	475	0.5	1	12.5 × 20
	10	106	0.2	0.5	12.5 × 31.5
	10	106	0.2	0.5	10 × 40
	22	226	0.2	0.3	16 × 31.5
	33	336	0.1	0.2	18 × 31.5
	47	476	0.1	0.2	18 × 40

Note :

The capacitance calculated from discharge time (ΔT) with constant current (i) after 30minute charge with rated voltage (2.5V).

The discharge current (i) is 0.01 × F (rated capacitance).

A discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated below.

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