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ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

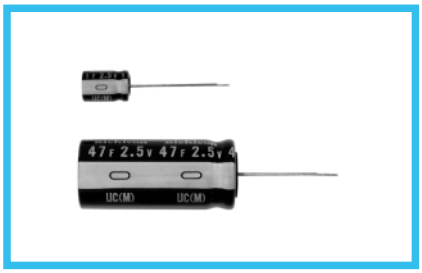
nichicon

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

UM
High Voltage
UC



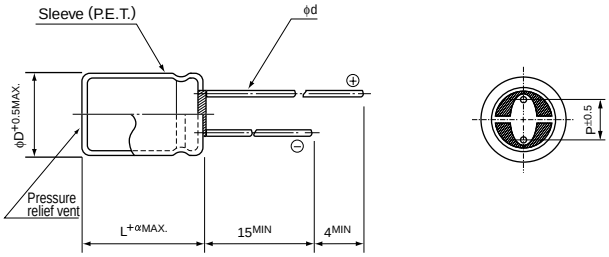
■Specifications

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.
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.
Marking	Printed with white color letter on black sleeve.

Endurance / Shelf Life:

Capacitance change	Within ±30% of the initial capacitance value
ESR	300% or less than the initial specified value
Leakage current	Less than or equal to the initial specified value

■Drawing



(mm)

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

α	
	(φD < 10) 1.5
	(φD ≧10) 2.0

※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 configulation.

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

1	2	3	4	5	6	7	8	9	10	11
J	U	C	0	E	1	0	6	M	P	D

Configuration ※
Capacitance tolerance (±20%)
Rated capacitance (10F)
Rated voltage (2.5V)
Series name
Type

※ 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 30minuite 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 bellow.

Capacitance (F) = i × ΔT