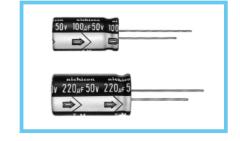




- Ideally suited for timer circuits.
- Excellent leakage current stability, even subjected to load or no load at high temperature for a long time.
- Adapted to the RoHS directive (2002/95/EC).





■Specifications

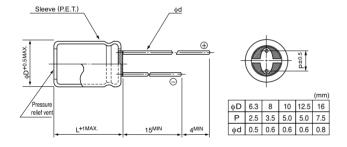
Item	Performance Characteristics								
Category Temperature Range	−40 ~ +85°C								
Rated Voltage Range	10 ~ 50V								
Rated Capacitance Range	1 ~ 470μF								
Capacitance Tolerance	±20% (M) (±10% (K) semi-standard) at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is 0.001CV+1 (µA) or less.								
tan δ	Measurement frequency : 120Hz, Temperature : 20°C								
	Rated voltage (V) 10		16		25		50		
	tan δ (MAX.)	0.17	0.13		0.	10	0.08		
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)		10	1	16	25	50		
	Impedance ratio	Z-25°C / Z+20°C	2		2	1.5	1.5		
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	4		3	2	2		
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right.			Capacitance change		Within ±10% of initial value			
				tan δ		150% or less of initial specified value			
				Leakage current		Initial specified value or less			
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.								
Marking	Printed with white color letter on black sleeve.								

 $\phi D \times L (mm)$

50

16×31.5

■Radial Lead Type



• Please refer to page 21 about the end seal configulation.

16

25

16×25

16×25

 16×31.5

Dimensions

221

331

471

220 330

470

10

10×20

12.5×25

 12.5×25

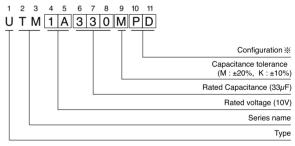
Cap. 1A 1C 1E 1H . (μF) Code 010 6.3×11 1 2.2 2R2 6.3×11 3.3 3R3 6.3×11 6.3×11 4.7 4R7 6.3×11 8×11.5 100 6.3×11 8×11.5 10×12.5 10 22 220 6.3×11 8×11.5 10×12.5 10×16 33 330 8×11.5 10×12.5 10×16 10×20 10×12.5 $12.5\!\times\!20$ 47 470 8×11.5 10×16 10×16 101 12.5×20 100 10×20 12.5×25

12.5×25

16×25

16×25

Type numbering system (Example: 10V 33µF)



%Configuration

φD	Pb-free leadwire Pb-free PET sleeve					
6.3	ED					
8 · 10	PD					
12.5 · 16	HD					