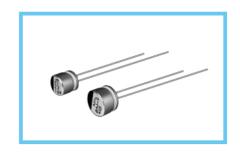




- ●5.2mmL MAX. height.
- Adapted to the RoHS directive (2002/95/EC).

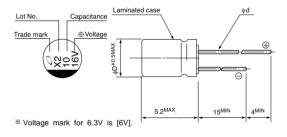


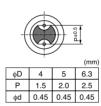


## **■**Specifications

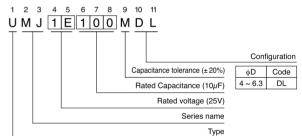
Item	Performance Characteristics										
Category Temperature Range	−40 ~ +85°C										
Rated Voltage Range	4 ~ 50V										
Rated Capacitance Range	0.1 ~ 220μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.										
	Measurement frequency : 120Hz, Temperature : 20°C										
tan δ	Rated voltage (V)	4	6.3	10	0	16	25	3	5	50	
	tan δ (MAX.)	0.35	0.26	0.2	20	0.16	0.14	0.	12	0.12	
	Measurement frequency: 120Hz										
Stability at Low Temperature	Rated voltage (V)			4	6.3	10	16	25	35	50	
		Z-25°C / Z+20°C		7	4	3	2	2	2	2	
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C		15	8	8	4	4	3	3	
Endurance	After 1000 hours' app	Capacitance change Within ±20% of initial value tan δ 200% or less of initial specified value									
Endurance	voltage at 85°C, capacitors meet thetan δ200% or less of initial specified valuecharacteristic requirements listed at right.Leakage currentInitial 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	Black print on the case top.										

## ■Radial Lead Type





# Type numbering system (Example : 25V $10\mu F$ )



#### **■** Dimensions

	V	4	ļ	6.	3	10	)	1	6	2	5	3	5	50	)
Cap.(µF)	Code	00	G	0,	J	1/	A	1	С	1	E	1	V	1⊦	ł
0.1	0R1													4	1.0
0.22	R22		i		i		i		i		İ		İ	4	2.0
0.33	R33				!								!	4	2.8
0.47	R47		i		i				i		i		İ	4	4.0
1	010		!		!				!		!			4	8.4
2.2	2R2		i						i		i		i	4	13
3.3	3R3		!		i !				!		!		ļ	4	17
4.7	4R7		i		i				İ	4	16	4	18	5	20
10	100		!		j !			4	23	5	27	5	29	6.3	33
22	220			4	28	5	33	5	37	6.3	42	6.3	46		
33	330	4	28	5	37	5	41	6.3	49	6.3	52		İ		
47	470	4	33	5	45	6.3	52	6.3	58		1				
100	101	5	56	6.3	70				İ				İ	Case size	Rated
220	221	6.3	96											φD (mm)	ripple

Rated Ripple (mArms) at 85°C 120Hz

### • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz ~
Coefficient	0.70	1.00	1.17	1.36	1.50

Please refer to page 21, 22, 23 about the formed or taped product spec. Please refer to page 3 for the minimum order quantity.