

MJ

5.2mmL MAX.



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

 Products which are scheduled to discontinue.
 Not recommended for new designs

 MA
 SA · SR
 Smaller

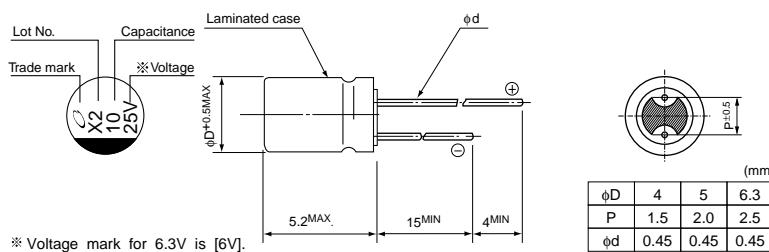
MJ



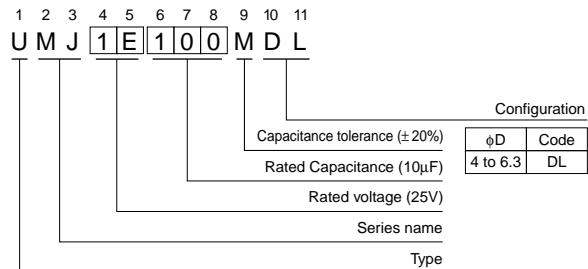
■ Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 to +85°C													
Rated Voltage Range	4 to 50V													
Rated Capacitance Range	0.1 to 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.													
tan δ	tan δ (MAX.) Measurement frequency : 120Hz, Temperature : 20°C													
	Rated voltage (V)	4	6.3	10	16	25	35	50						
	tan δ (MAX.)	0.35	0.26	0.20	0.16	0.14	0.12	0.12						
Stability at Low Temperature	Stability at Low Temperature Measurement frequency : 120Hz													
	Rated voltage (V)	4	6.3	10	16	25	35	50						
	Impedance ratio	Z-25°C / Z+20°C	7	4	3	2	2	2						
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	15	8	8	4	3	3						
Endurance	After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.													
		Capacitance change	Within ±20% of initial value											
		tan δ	200% 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	Black print on the case top.													

■ Radial Lead Type



Type numbering system (Example : 25V 10μF)



■ Dimensions

Cap.(μF)	Code	4	6.3	10	16	25	35	50
		0G	0J	1A	1C	1E	1V	1H
0.1	0R1							4
0.22	R22							4
0.33	R33							4
0.47	R47							4
1	010							8.4
2.2	2R2							13
3.3	3R3							17
4.7	4R7					4	18	20
10	100				4	23	5	29
22	220		4	28	5	37	6.3	46
33	330	4	28	5	37	6.3	49	
47	470	4	33	5	45	6.3	52	
100	101	5	56	6.3	70			
220	221	6.3	96					

Rated Ripple (mA rms) at 85°C 120Hz

■ Frequency coefficient of rated ripple current

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

 Please refer to page 20, 21, 22 about the formed or taped product spec.
 Please refer to page 4 for the minimum order quantity.