

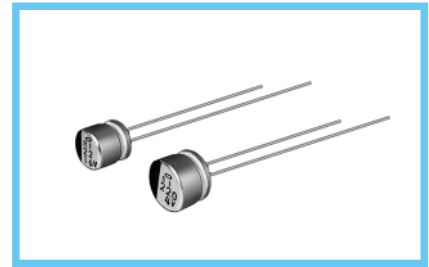
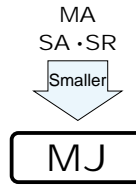
# ALUMINUM ELECTROLYTIC CAPACITORS

**MJ** series 5.2mmL MAX.



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

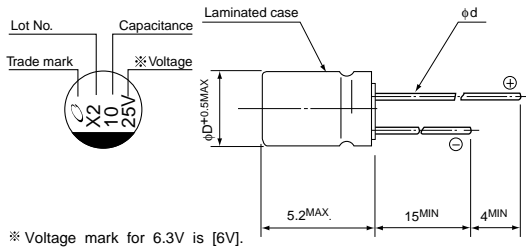
Products which are scheduled to discontinue.  
Not recommended for new designs



## Specifications

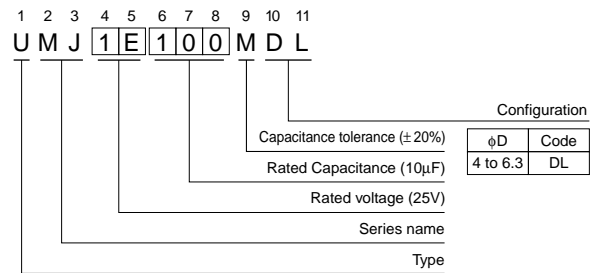
Item	Performance Characteristics								
Category Temperature Range	-40 to +85°C								
Rated Voltage Range	4 to 50V								
Rated Capacitance Range	0.1 to 220μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
tan δ	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	Measurement frequency : 120Hz								
	Rated voltage (V)	4	6.3	10	16	25	35	50	
	Impedance ratio Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	7	4	3	2	2	2	2	
	ZT / Z20 (MAX.)	Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	15	8	8	4	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



※ Voltage mark for 6.3V is [6V].

## Type numbering system (Example : 25V 10μF)



## Dimensions

Cap.(μF)	V Code	4		6.3		10		16		25		35		50	
		0G	0J	1A	1C	1E	1V	1H							
0.1	0R1											4	1.0		
0.22	R22											4	2.0		
0.33	R33											4	2.8		
0.47	R47											4	4.0		
1	010											4	8.4		
2.2	2R2											4	13		
3.3	3R3											4	17		
4.7	4R7									4	16	4	18	5	20
10	100							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				
47	470	4	33	5	45	6.3	52	6.3	58						
100	101	5	56	6.3	70										
220	221	6.3	96											Case size φD (mm)	Rated 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 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.