

ALUMINUM ELECTROLYTIC CAPACITORS

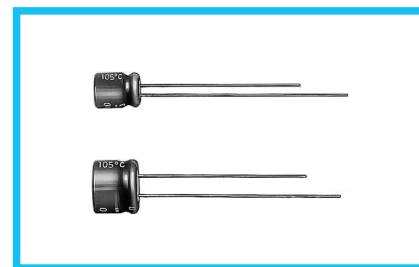
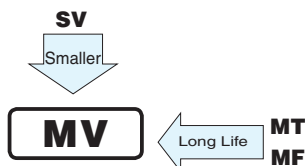
nichicon

MV series

5mmL, Long Life Assurance



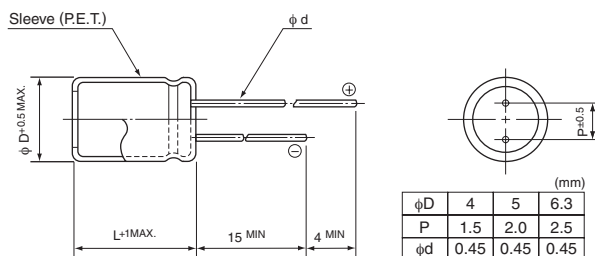
- Extended load life of 5000 hours at +105°C, with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).



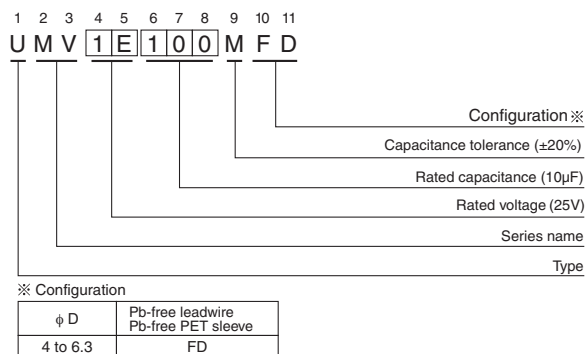
Specifications

Item	Performance Characteristics								
Category Temperature Range	−40 to +105°C								
Rated Voltage Range	4 to 50V								
Rated Capacitance Range	0.1 to 100μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C								
	Rated voltage (V)	4	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13	0.12	
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z−25°C / Z+20°C Z−40°C / Z+20°C	8 14	4 10	3 7	2 5	2 3	2 3	2 3
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.				Capacitance change		Within ±30% of the initial capacitance value		
					tan δ		300% or less than the initial specified value		
					Leakage current		Less than or equal to the initial specified value		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.								
Marking	Printed with silver color letter on dark brown sleeve.								

Radial Lead Type



Type numbering system (Example : 25V 10μF)



Dimensions

V		4	6.3	10	16	25	35	50		
Cap.(μF)	Code	0G	0J	1A	1C	1E	1V	1H		
0.1	0R1							4 × 5	1.0	
0.22	R22							4 × 5	2.6	
0.33	R33							4 × 5	3.2	
0.47	R47							4 × 5	3.8	
1	010							4 × 5	6.2	
2.2	2R2							4 × 5	11	
3.3	3R3							4 × 5	14	
4.7	4R7							5 × 5	19	
10	100				4 × 5	18	5 × 5	23	5 × 5	25
22	220	4 × 5	22	4 × 5	22	5 × 5	27	5 × 5	30	6.3 × 5
33	330	5 × 5	30	5 × 5	30	5 × 5	35	6.3 × 5	40	6.3 × 5
47	470	5 × 5	36	5 × 5	36	6.3 × 5	46	6.3 × 5	50	
100	101	6.3 × 5	60	6.3 × 5	60					

Rated ripple current (mArms) at 105°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.

CAT.8100D