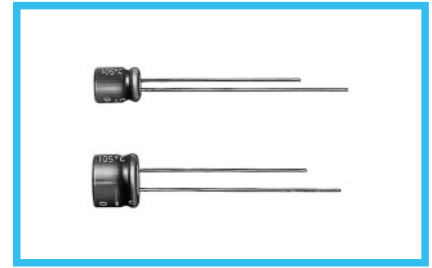
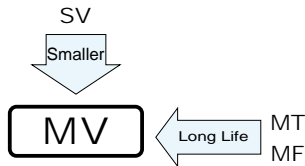


ALUMINUM ELECTROLYTIC CAPACITORS

MV 5mmL, Long Life Assurance
series



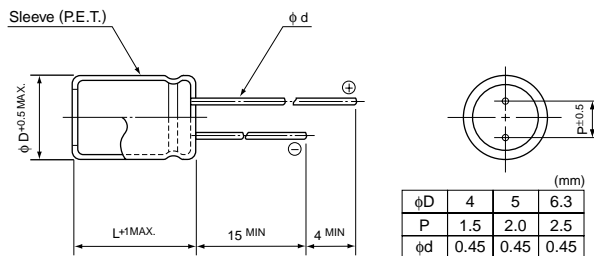
- Extended load life of 5000 hours at +105°C, with 5mm height.
- Compliant to the RoHS directive (2002/95/EC).



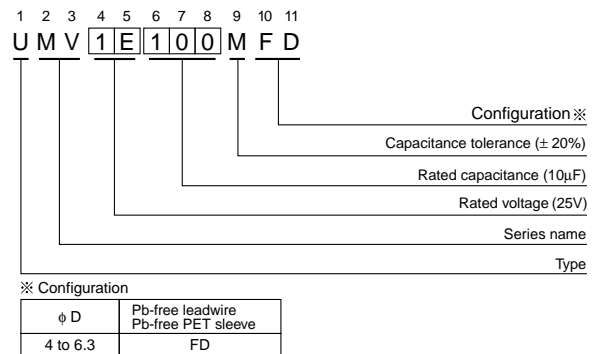
Specifications

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, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.																									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C																									
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.37</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> </tr> </table>	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									
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																									
	<table border="1"> <tr> <td colspan="2">Rated voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td rowspan="2">Impedance ratio ZT / Z20 (MAX.)</td> <td>Z-25°C / Z+20°C</td> <td>8</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>14</td> <td>10</td> <td>7</td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V)		4	6.3	10	16	25	35	50	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	8	4	3	2	2	2	2	Z-40°C / Z+20°C	14	10	7	5	3	3
Rated voltage (V)		4	6.3	10	16	25	35	50																		
Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	8	4	3	2	2	2	2																		
	Z-40°C / Z+20°C	14	10	7	5	3	3	3																		
Endurance	<p>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.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>300% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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																			
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

Cap.(μF)	V		4		6.3		10		16		25		35		50	
	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										4×5	13	4×5	15	5×5	19
10	100								4×5	18	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	42			
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48					
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										Case size φD×L (mm)	Rated ripple

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.