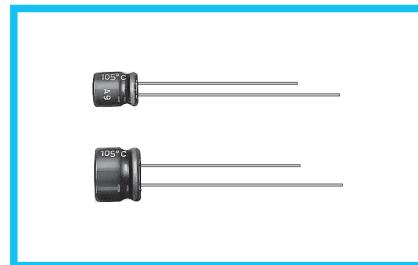


UMF

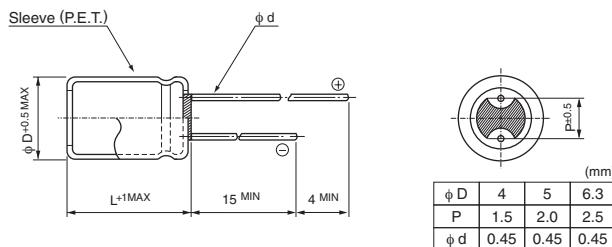
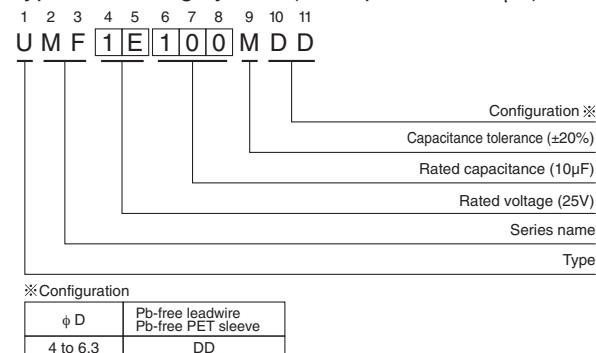
5mmL, Low Impedance



- Low impedance over wide temperature range of -55 to +105°C, with 5mm height.
- Suited for DC-DC converters where smaller case size and lower impedance are required.
- Compliant to the RoHS directive (2011/65/EU).

UMF ← Low Impedance → **UMT**
**■ Specifications**

Item	Performance Characteristics																							
Category Temperature Range	-55 to +105°C																							
Rated Voltage Range	6.3 to 35V																							
Rated Capacitance Range	1 to 100μF																							
Rated 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 <table border="1"> <tr> <th>Rated voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th></tr> <tr> <th>tan δ (MAX.)</th><td>0.22</td><td>0.20</td><td>0.18</td><td>0.14</td><td>0.12</td></tr> </table>						Rated voltage (V)	6.3	10	16	25	35	tan δ (MAX.)	0.22	0.20	0.18	0.14	0.12						
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Stability at Low Temperature	Measurement frequency : 120Hz <table border="1"> <tr> <th>Rated voltage (V)</th><th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th></tr> <tr> <td>Z-25°C / Z+20°C</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr> <td>ZT / Z20 (MAX.)</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr> </table>						Rated voltage (V)	6.3	10	16	25	35	Z-25°C / Z+20°C	2	2	2	2	2	ZT / Z20 (MAX.)	4	4	3	3	3
Rated voltage (V)	6.3	10	16	25	35																			
Z-25°C / Z+20°C	2	2	2	2	2																			
ZT / Z20 (MAX.)	4	4	3	3	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 1000 hours at 105°C. <table border="1"> <tr> <td>Capacitance change</td><td>Within ±20% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>200% 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 ±20% of the initial capacitance value	tan δ	200% or less than the initial specified value	Leakage current	Less than or equal to the initial specified value												
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tan δ	200% 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 white color letter on dark brown sleeve.																							

■ Radial Lead Type**Type numbering system (Example : 25V 10μF)****■ Dimensions**

Cap.(μF) \ V	Code	6.3		10		16		25		35	
		0J	1A	1A	1C	1E	1V				
1	010									4×5	5.0
1.5	1R5									4×5	5.0
2.2	2R2									4×5	5.0
3.3	3R3									4×5	5.0
4.7	4R7									4×5	5.0
6.8	6R8									5×5	2.6
10	100					4×5	5.0	5×5	2.6	5×5	2.6
15	150					5×5	2.6	80	6.3×5	1.3	115
22	220	4×5	5.0	50	5×5	2.6	80	6.3×5	1.3	115	6.3×5
33	330	5×5	2.6	80	5×5	2.6	80	6.3×5	1.3	115	6.3×5
47	470	5×5	2.6	80	6.3×5	1.3	115	6.3×5	1.3	115	
68	680	6.3×5	1.3	115							
100	101	6.3×5	1.3	115							

Max. Impedance (Ω) at 20°C 100kHz

Rated ripple current (mA rms) at 105°C 100kHz

● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

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