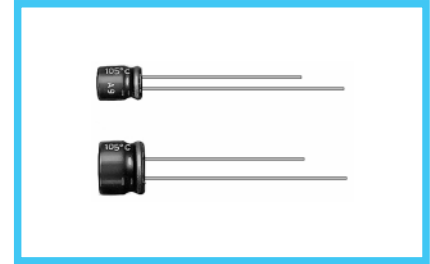


MF 5mmL, Low Impedance series



- Low impedance over wide temperature range of -55 ~ +105°C, with 5mm height.
- Suited for DC-DC converters where smaller case size and lower impedance are required.

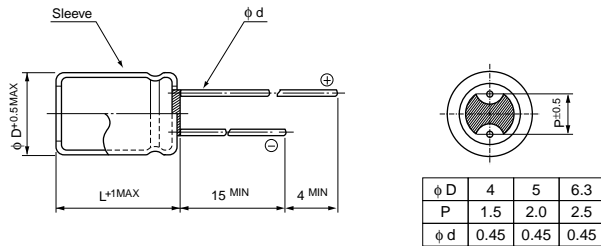
※ The laminated case products are also available upon request.



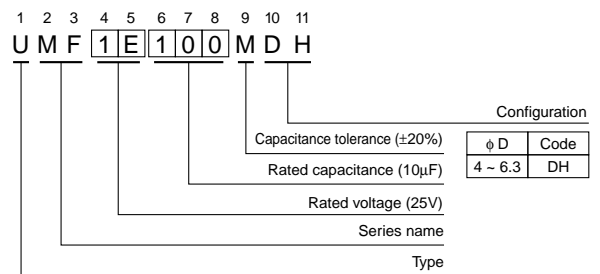
Specifications

Item	Performance Characteristics																		
Category Temperature Range	-55 ~ +105°C																		
Voltage Range	6.3 ~ 35V																		
Rated Capacitance Range	1 ~ 100μF																		
Rated 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																		
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tan δ (MAX.)</td> <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						
Rated voltage(V)	6.3	10	16	25	35														
tan δ (MAX.)	0.22	0.20	0.18	0.14	0.12														
Stability at Low Temperature	Measurement frequency : 120Hz																		
	<table border="1"> <tr> <td>Rated voltage(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Impedance ratio 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>Z - 55°C/Z+20°C</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	Impedance ratio Z - 25°C/Z+20°C	2	2	2	2	2	ZT/Z20(MAX.)	Z - 55°C/Z+20°C	4	4	3	3
Rated voltage(V)	6.3	10	16	25	35														
Impedance ratio Z - 25°C/Z+20°C	2	2	2	2	2														
ZT/Z20(MAX.)	Z - 55°C/Z+20°C	4	4	3	3	3													
Endurance	After 1000 hours' application of rated voltage at 105°C capacitors meet the characteristic requirements listed at right.																		
	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less												
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 leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.																		
Marking	Printed with white color letter on dark brown sleeve.																		

Radial Lead Type



Type numbering system (Example : 25V 10μF)



- The PET sleeve product is also available upon request. In this case, **T** will be put at 11th digit of type numbering system.

Dimensions

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

Frequency coefficient of rated ripple current

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

Max. Impedance (Ω) at 20°C 100kHz
 Rated Ripple (mA rms) at 105°C 100kHz

Please refer to page 17, 18, 19 about the formed or taped product spec.
 Please refer to page 3 for the minimum order quantity.