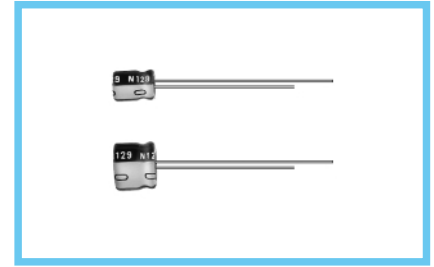
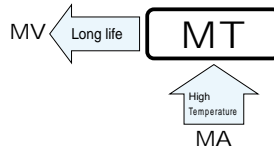


**MT** series 5mmL, Wide Temperature Range



Anti-Solvent Feature

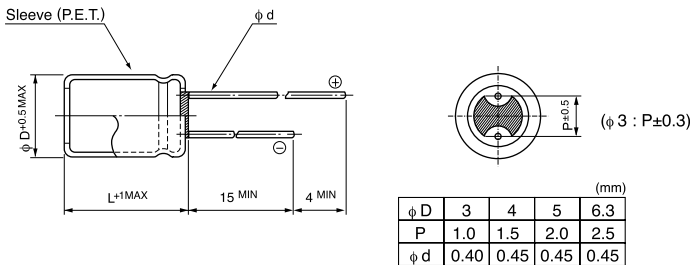
- Wide temperature range of  $-55 \sim +105^{\circ}\text{C}$ , with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).



## Specifications

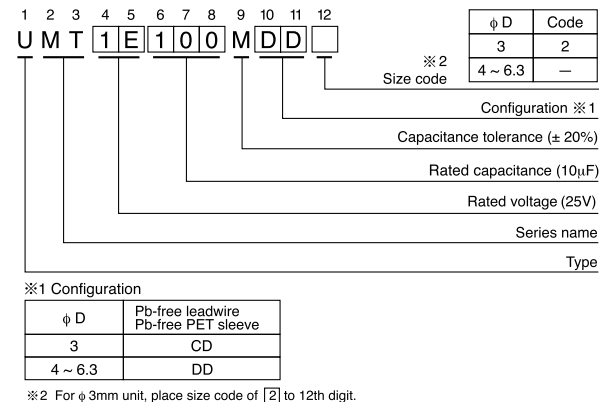
Item	Performance Characteristics																							
Category Temperature Range	$-55 \sim +105^{\circ}\text{C}$																							
Voltage Range	4 ~ 50V																							
Rated Capacitance Range	0.1 ~ 100µF																							
Rated Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																							
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>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td rowspan="2">Figures in ( ) are for φ 3 product.</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 (0.14)</td> <td>0.12 (0.14)</td> </tr> </table>	Rated voltage (V)	4	6.3	10	16	25	35	50	Figures in ( ) are for φ 3 product.	tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13 (0.14)	0.12 (0.14)						
Rated voltage (V)	4	6.3	10	16	25	35	50	Figures in ( ) are for φ 3 product.																
tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13 (0.14)	0.12 (0.14)																	
Stability at Low Temperature	Measurement frequency : 120Hz																							
	<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>Impedance ratio Z-25°C / Z+20°C</td> <td>6</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>ZT / Z20 (MAX.)</td> <td>12</td> <td>8</td> <td>5</td> <td>4</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 Z-25°C / Z+20°C	6	3	3	2	2	2	2	ZT / Z20 (MAX.)	12	8	5	4	3	3
Rated voltage (V)	4	6.3	10	16	25	35	50																	
Impedance ratio Z-25°C / Z+20°C	6	3	3	2	2	2	2																	
ZT / Z20 (MAX.)	12	8	5	4	3	3	3																	
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.																							
	Capacitance change	Within $\pm 25\%$ of initial value (φ 3mm unit, and $\leq 16\text{V}$ ) Within $\pm 20\%$ of initial value ( $\geq 25\text{V}$ )																						
	tan δ	200% or less of initial specified value																						
Shelf Life	Leakage current	Initial specified value or less																						
	After storing the capacitors under no load at 105°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	Printed with white color letter on black sleeve.																							

## Radial Lead Type



● Please refer to page 21 about the end seal configuration.

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



## Dimensions

Cap. (µF)	Code	4		6.3		10		16		25		35		50	
		0G		0J		1A		1C		1E		1V		1H	
0.1	0R1														
0.22	R22														● 4×5 1.0
0.33	R33														● 4×5 2.6
0.47	R47														● 4×5 3.2
1	010														● 4×5 3.8
2.2	2R2														● 4×5 6.2 (5.9)
3.3	3R3														● 4×5 11 (9)
4.7	4R7														● 4×5 14
10	100														● 4×5 19
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48		● 4×5 30
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										

Size φ 3 × 5 is available for capacitors marked "●"  
Figures in ( ) are for φ 3 product.

Rated Ripple (mArms) at 105°C 120Hz

## Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz ~
Coefficient	0.70	1.00	1.17	1.36	1.50

Please refer to page 21, 22, 23 about the formed or taped product spec.  
Please refer to page 3 for the minimum order quantity.