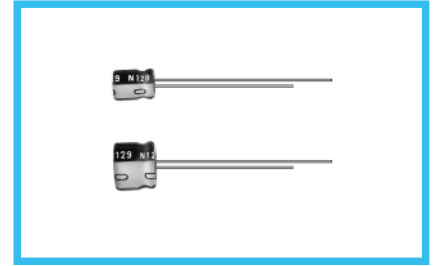
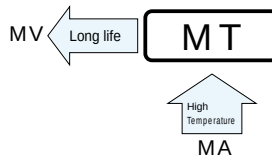


MT series

5mmL, Wide Temperature Range



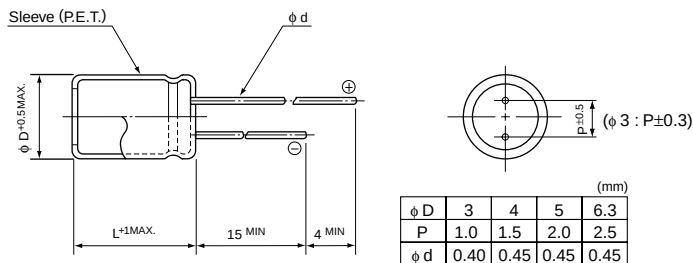
- Wide temperature range of -55 to +105°C, with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

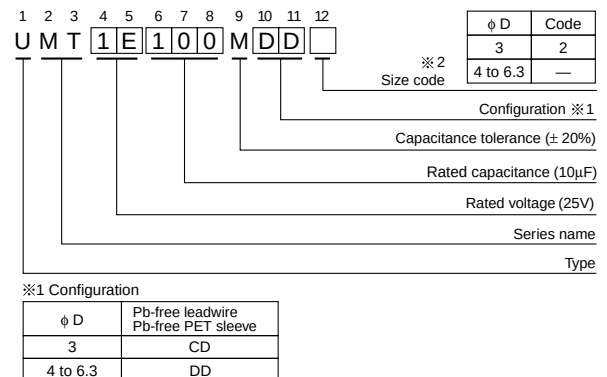
Item	Performance Characteristics								
Category Temperature Range	-55 to +105°C								
Voltage Range	4 to 50V								
Rated Capacitance Range	0.1 to 100μF								
Rated Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C								
	Rated voltage (V) tan δ (MAX.)	4 0.37	6.3 0.28	10 0.24	16 0.20	25 0.16	35 0.13 (0.14)	50 0.12 (0.14)	Figures in () are for φ 3 product.
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	6	3	3	2	2	2	2
		Z-40°C / Z+20°C	12	8	5	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.					Capacitance change		Within ±25% of the initial capacitance value (φ 3mm unit, and ≤ 16V) Within ±20% of the initial capacitance value (≥ 25V)	
						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 black sleeve.								

Radial Lead Type



- Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 25V 10μF)



※2 For φ 3mm unit, place size code of 2 to 12th digit.

Dimensions

Cap.(μF)	V Code	4		6.3		10		16		25		35		50	
		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 (5.9)
2.2	2R2											3 × 5	7.5	● 4×5	11 (9)
3.3	3R3											● 4 × 5	11 (9)	4 × 5	14
4.7	4R7									● 4×5	13 (10)	4 × 5	15	5 × 5	19
10	100							● 4×5	18 (14)	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	48		
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 φ D×L (mm)	Rated ripple

Size φ3×5 is available for capacitors marked "•"
Figures in () are for φ 3 product.

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.