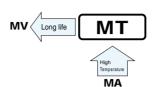
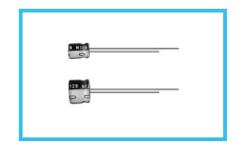




- Wide temperature range of -55 to +105°C, with 5mm height.
- Compliant to the RoHS directive (2002/95/EC).

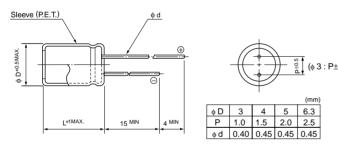




■ Specifications

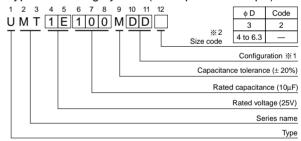
Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C											
Voltage Range	4 to 50V											
Rated Capacitance Range	0.1 to 100μF											
Rated Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.											
	Measurement frequency : 120Hz, Temperature : 20°C											
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3		10	16	25		35	50	Figures in () are for
	tan δ (MAX.)	0.37	0.28		0.24	0.20	0.16	0.1	3 (0.14)	0.12 (0.14)	φ 3 product.	
	Measurement frequency: 120Hz											
	Rated voltage (V)			4	6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+	-20°C	6	3	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+	-20°C	12	8	5	4	3	3	3		
Endurance	The specifications lis	Capacitance change Within ±25% of the initial capacitance value (∮ 3mm unit,and ≦ 16 Within ±20% of the initial capacitance value (≧ 25V)							unit,and ≦ 16V)			
	after the rated voltag	tan δ	200% or less than the initial specified value									
	hours at 105°C.	Leakage ci	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 configulation.

Type numbering system (Example: 25V 10µF)



※1 Configuration Pb-free leadwire Pb-free PET sleeve 3 CD 4 to 6.3 DD

 $\frak{\%}2$ For ϕ 3mm unit, place size code of $\frak{2}$ to 12th digit.

■ Dimensions

	V	4		6.3		10		16		25		35		50	
Cap.(µF)	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1						!							•4×5	1.0
0.22	R22		i		i		i						i	•4×5	2.6
0.33	R33		! !		! !		!		!		!		!	•4×5	3.2
0.47	R47						ļ						i	●4×5	3.8
1	010		i I		i I		İ		İ		-		İ	•4×5	6.2 (5.9)
2.2	2R2						i					3 × 5	7.5	•4×5	11 (9)
3.3	3R3		İ		İ		İ					• 4 × 5	11 (9)	4×5	14
4.7	4R7		 		 		 			• 4×5	13 (10)	4 ×5	15	5×5	19
10	100						İ	• 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				i
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50				!	Case size	Rated
100	101	6.3×5	60	6.3×5	60								1	φD×L (mm)	ripple

Size \$\phi 3 \times 5\$ is available for capacitors marked "●" Figures in () are for \$\phi\$ 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.