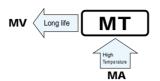
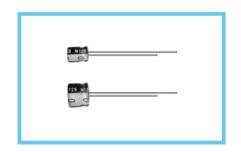




- Wide temperature range of -55 to +105°C, with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).

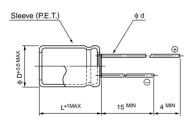


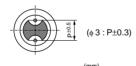


### ■Specifications

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' a	pplication of	rated vo	Itage	, leakage c	urrent is n	ot more	than (	0.01CV o	r 3 (µA), wl	nichever is g	reater.
					Mea	surement fr	equency:	120Hz	z, Temper	ature : 20°C		
tan δ	Rated voltage (V)	4 6.3			10	16	25		35 50		Figures in (	) are for
	tan δ (MAX.)	0.37	0.37 0.28		0.24	0.20	0.16	0.	13 (0.14)	0.12 (0.14)	φ 3 product.	
	Measurement frequency : 120Hz											
0.1.00	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		
	After 1000 hours' ap		Capacitan	ce change	Within ±25% of initial value (∮ 3mm unit,and ≤ 16V) Within ±20% of initial value (≥ 25V)							
Endurance	at 105°C, capacitors requirements listed	tan δ	200% or less of initial specified value									
	requirements listed	[	Leakage current Initial specified value or less									
Shelf Life	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

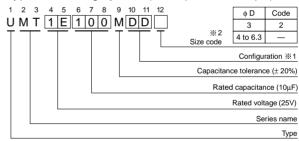




					(mm)
	φD	3	4	5	6.3
	Р	1.0	1.5	2.0	2.5
ſ	φd	0.40	0.45	0.45	0.45

• Please refer to page 20 about the end seal configulation.

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



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

#### **■**Dimensions

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

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