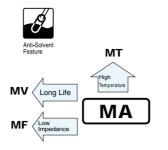
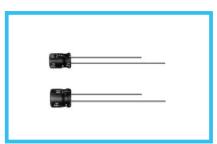
5mmL, Standard, For General Purposes series

- Standard series with 5mm height.
- Compliant to the RoHS directive (2002/95/EC).



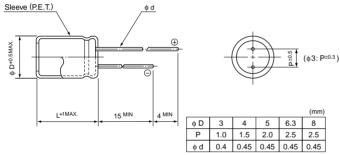


## ■Specifications

Item	Performance Characteristics  pe											
Category Temperature Range												
Rated Voltage Range	4 to 50V											
Rated Capacitance Range	0.1 to 470μF											
Rated Capacitance Tolerance	±20% at 120Hz, 2	z, 20°C										
Leakage Current After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3(μA), which								whichever i	s greater.			
	Measurement frequency : 120Hz, Temperature : 20°C											
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	4	6.3	3	10	16	25	3	5	50	Figures in (	) are for
	tan δ (MAX.)	0.35	0.24 (	0.30) 0.2	0 (0.24)	0.16 (0.20)	0.14 (0.	18) 0.12 (	(0.16) 0.1	0 (0.13)	MR series.	
	Measurement frequency: 120Hz											
Stability at Low Temperature	Rated voltage (V)			4	6.3	10	16	25	35	50		
	Impedance ratio	Z-25°C / Z	2+20°C	7	4	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z	′+20°C	15	8	6	4	4	3	3		
	The specifications listed at right shall be met Capacitance change   Within ±20% of the initial capacitance value (MR series & 6 3 product : Within ±25%)										raduat : Within : 250/	
Endurance	when the capacito	tan δ	citarice criai	0	Within ±20% of the initial capacitance value (MR series & \phi 3 product : Within ±25%)  200% or less than the initial specified value							
Endurance	the rated voltage is applied for 2000 hours at					age current		Less than or equal to the initial specified value				
	85°C.											
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 510 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.									S C 5101-4		
Marking	Printed with white color letter on black sleeve.											

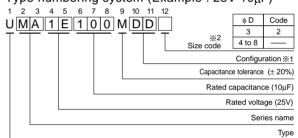
### ■Radial Lead Type

■ Dimensions



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

# Type numbering system (Example : 25V $10\mu F)$



\* 1 Configuration

\* 1 Configuration

\* 2 Configuration

\* 3 Configuration

\* 4 Configuration

\* 4 Configuration

\* 5 Configuration

\* 5 Configuration

\* 6 Configuration

\* 7 Conf

φD	Pb-free leadwire Pb-free PET sleeve				
3	CD				
4 to 8	DD				

## 

V Cap.(μF) Code		4		6.3		<b>10</b> 1A		<b>16</b> 1C		<b>25</b> 1E		<b>35</b> 1V		<b>50</b> 1H	
		0G		0J											
0.1	0R1				!		!				!		!	4×5(3×5)	1.0(1.0)
0.22	R22										i		i	4×5(3×5)	
0.33	R33						1		1				İ	4×5(3×5)	2.8(2.8)
0.47	R47		l I											4×5(3×5)	4.0(4.0)
1	010		i !		!		!				i !		!	4×5(3×5)	8.4(8.0)
2.2	2R2		i		i		i				i	3×5	8.4	• 4×5	13(10)
3.3	3R3		!		!		!			3×5	10	• 4×5	15(10)	4×5	17
4.7	4R7							3×5	10	• 4×5	16(12)	4×5	18	5×5	20
10	100		i	3×5	15			• 4×5	23(18)	5×5	27	5×5	29	6.3×5	33
22	220	3×5	19	• 4×5	28(21)	5×5	33	5×5	37	6.3×5	42	6.3×5	46	□ 8×5	52 (48)
33	330	4×5	28	5×5	37	5×5	41	∘ 6.3×5	49 (43)	6.3×5	52	□ 8×5	62(52)	8×5	71
47	470	4×5	33	5×5	45	∘ 6.3×5	52(43)	6.3×5	58	□ 8×5	70(62)	8×5	80		
100	101	5×5	56	∘ 6.3×5	70(68)	□ 8×5	80(76)	□ 8×5	92 (86)	8×5	110				i I
220	221	6.3×5	96	□ 8×5	110 (90)	8×5	135								
330	331	8×5	145	8×5	170		!		!				!	Case size	Rated
470	/71	8×5	185						1				1	oD×L (mm)	ripple

Size  $\phi 3 \times 5$  is available for capacitors marked. " $\Phi$ "/ Size  $\phi 5 \times 5$  is available for capacitors marked. " $\Phi$ " Size  $\phi 6.3 \times 5$  is available for capacitors marked. " $\Phi$ " In such a case,  $\boxed{M}$   $\boxed{R}$  will be put at 2nd and 3rd digit of type numbering system.

Rated ripple current (mArms) at 85°C 120Hz ( ) = \$\phi 3\$ units and MR series.

#### 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.