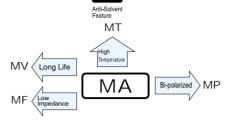
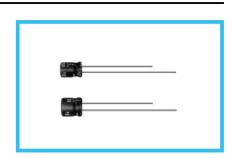
5mmL, Standard, For General Purposes series

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

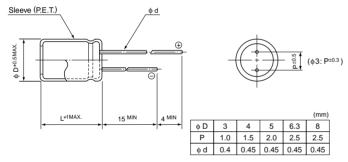




■Specifications

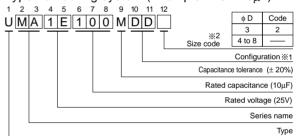
Item	Performance Characteristics											
Category Temperature Range	-40 to +85°C											
Rated Voltage Range	4 to 50V											
Rated Capacitance Range	0.1 to 470µF											
Rated Capacitance Tolerance ±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' application of rated voltage, 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	3	10	16	25		35	50	Figures in () are for
J	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											
	Rated vo	oltage (V)		4	6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z	′+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											
	when the capacitors are restored to 20°C after					citance chai	-	Within ±20% of the initial capacitance value (MR series & \phi 3 product : Within ±25%)				
Endurance	the rated voltage is	tan o			200% or less than the initial specified value							
	85°C.	Leakage current Less than or equal to the initial specified value										
Shelf Life	After storing the capacitors under no load at 85°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 co	olor letter on	black sle	eeve.								

■Radial Lead Type



• 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

■ Dimensions

	V	4		6.3	3	10		16		25		35		50)
Cap.(μF)	Code	0G		0J		1A		1C	;	1E		1V	'	1H	ł
0.1	0R1		!				!		!				!	4×5(3×5)	1.0(1.0)
0.22	R22				i				i		i			4×5(3×5)	2.0(2.0)
0.33	R33		!		!		!		!		ļ		!	4×5(3×5)	2.8(2.8)
0.47	R47		l I								İ		1	4×5(3×5)	4.0(4.0)
1	010		i !		İ		!		ļ		į į		!	4×5(3×5)	8.4(8.0)
2.2	2R2		i i		İ		İ		İ		İ	3×5	8.4	• 4×5	13(10)
3.3	3R3		i I		İ		İ			3×5	10	• 4×5	15(10)	4×5	17
4.7	4R7		l					3×5	10	• 4×5	16(12)	4×5	18	5×5	20
10	100		i	3×5	15		İ	• 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		1		1
220	221	6.3×5	96	□ 8×5	110 (90)	8×5	135								
330	331	8×5	145	8×5	170		İ		İ		İ		İ	Case size	Rated
470	471	8×5	185		!				ļ ,				!	φD×L (mm)	

Size $\phi 3 \times 5$ is available for capacitors marked. "●"/ Size $\phi 5 \times 5$ is available for capacitors marked. "o" Size $\phi 6.3 \times 5$ is available for capacitors marked. "□" In such a case, $\boxed{\mathbb{M}}$ 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.