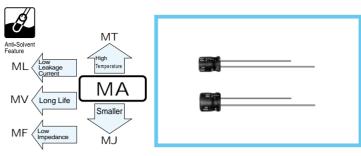
5mmL, Standard, For General Purposes

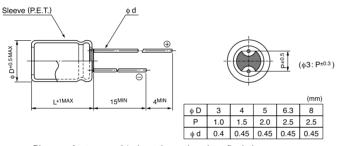
- Standard series with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).



■Specifications

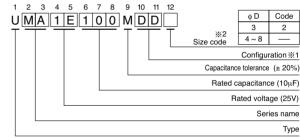
Item	Performance Characteristics													
Category Temperature Range	−40 ~ +85°C								<u></u>					
Rated Voltage Range	4 ~ 50V													
Rated Capacitance Range	0.1 ~ 470µF													
Rated Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes'		of rated	l voltag	e, leaka	ige current	is not	more	than 0.	.01CV o	r 3(μA),	whichever i	s greater.	
	Measurement frequency : 120Hz, Temperature : 20°C													
tan δ	Rated voltage (V)	e (V) 4			10	16	2	25	35		50	Figures in () are for	
	tan δ (MAX.)	0.35	0.24 (0	.30) 0.2	20 (0.24)	0.16 (0.20)	0.14	(0.18)	0.12 (0	0.16)	0 (0.13)	MR series.		
	Measurement frequency: 120Hz													
O(-13%	Rated voltage (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			
	Considerate Part 1 and 1									-t . Mith: 050()				
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristic					Capacitance change tan δ			Within ±20% of initial value (MR series & φ 3 product : Within ±25%) 200% or less of initial specified value					
Endurance									Initial specified value or less					
	requirements listed at right. Leakage current Initial specified value or less													
Shelf Life	After storing the capacitors under no load at 85°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



• Please refer to page 21 about the end seal configulation.

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



※1 Configuration

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

* 2 In case at φ3 units, put 2 as size code

■Dimensions

	V	4		6.3		10		16		25		35		50	1
Cap.(μF)	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1						-							4×5(3×5)	1.0(1.0)
0.22	R22				i		i		i		i		i	4×5(3×5)	2.0(2.0)
0.33	R33						!		!		!		!	4×5(3×5)	2.8(2.8)
0.47	R47				i		i		i		i		i	4×5(3×5)	4.0 (4.0)
1	010				! !		!		!		!		!	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			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				
220	221	6.3×5	96	□ 8×5	110 (90)	8×5	135				i				İ
330	331	8×5	145	8×5	170		-				!		ļ	Case size	Rated
470	471	8×5	185						İ					φD×L (mm)	ripple

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, MR will be put at 2nd and 3rd digit of type numbering system.

Rated Ripple (mArms) at 85°C 120Hz () = ϕ 3 units and MR series.

Frequency coefficient of rated ripple current

- 1 7			11	-	
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz ~
Coefficient	0.70	1.00	1.17	1.36	1.50

Please refer to page 21, 22, 23 about the formed or taped product spec. Please refer to page 3 for the minimum order quantity.