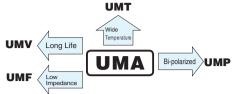
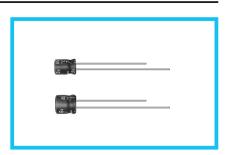


5mmL, Standard, For General Purposes



- •Standard series with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).

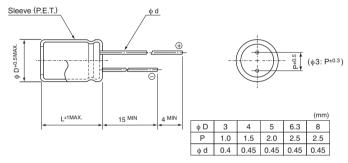




■Specifications

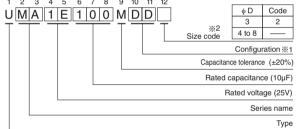
•													
Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	4 to 50V												
Rated Capacitance Range	1 to 470μF												
Rated Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3(µA), whichever is greatly								ever is greater.				
	Measurement frequency : 120Hz at 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)	4	6.3	3	10	16	25		35		50	Figures in () are for
	tan δ (MAX.)	0.35	0.24 (0	0.30) 0.2	0 (0.24)	0.16 (0.20)	0.14 (0	.18)	0.12 (0.16	0.1	0 (0.13)	UMR.	
	Measurement frequency: 120Hz												
OLD 1777	Rated voltage (V)			4	6.3	10	16	2	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										at - Mithin - OF9/		
Endurance	when the capacitors are restored to 20°C after					Capacitance change tan δ			Within ±20% of the initial capacitance value (UMR & φ 3 product : Within ±25%) 200% or less than the initial specified value				
Endurance	the rated voltage			Less than or equal to 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 of	olor letter on l	black sle	eve.									

■Radial Lead Type



[•] Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 25V $10\mu F$) $1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 10\ 11\ 12$ $0\ M\ D\ D\ 3$



★1 Configuration

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

■ Dimensions

V Cap.(μF) Code 1 010		4 0G		6.3 0J		10 1A		16 1C		25 1E		35 1V		50 1H	
		2.2	2R2		i		i		i					3×5	8.4
3.3	3R3		l I		i i		i i			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		i	• 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		
220	221	6.3×5	96	□ 8×5	110(90)	8×5	135		I I		1		1		I I
330	331	8×5	145	8×5	170		i i		!		!		!	Case size	Rated
470	471	8×5	185										1	φD×L (mm)	ripple

Size $\phi 3 \times 5$ is available for capacitors marked. "• "/ Size $\phi 5 \times 5$ is available for capacitors marked. "b " Size ∮6.3 x 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 current (mArms) at 85°C 120Hz () = ϕ 3 units and UMR.

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.