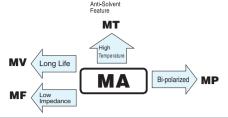
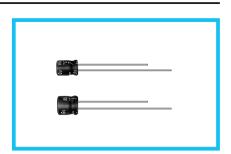


- •Standard series with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).



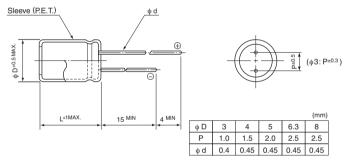


■Specifications

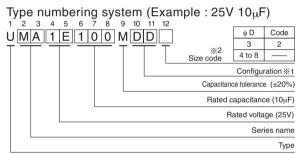
Item					Pe	erformance C	haracte	ristics	}				
Category Temperature Range	ge -40 to +85°C 4 to 50V												
Rated Voltage Range													
Rated Capacitance Range	0.1 to 470µF												
Rated Capacitance Tolerance	±20% at 120Hz,	20°C											
Leakage Current	After 2 minutes' a	application o	of rated	voltage	at 20°C,	leakage ci	urrent is	not	more tha	n 0.01	CV or 3	(μA), whiche	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 (0.1	6) 0.1	0 (0.13)	MR series.	
	Measurement frequency: 120Hz												
O. 1.17	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 Canacitance change Within ±20% of the initial canacitance value (MR series & & 3 product : Within ±									aduat (Mithin (050/)			
Fadinasa	when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at					Capacitance change tan δ			Within ±20% of the initial capacitance value (MR series & φ 3 product : Within ±25%) 200% or less than the initial specified value				
Endurance						140.1			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.								S C 5101-4				
Marking	Printed with white o	olor letter on	black sle	eve.									

■ Radial Lead Type

■Dimensions



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



※1 Configuration

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

※ 2 In case at φ 3 units, put 2 as size code.

V Cap.(μF) Code		4 0G		6.3 0J		10 1A		16 1C		25 1E		35 1V		50 1H	
0.22	R22				i		i		i		i		i	$4 \times 5(3 \times 5)$	2.0(2.0)
0.33	R33								 		l I		-	$4 \times 5(3 \times 5)$	
0.47	R47													$4 \times 5(3 \times 5)$	4.0(4.0)
1	010				i		į		į		į		į	$4 \times 5(3 \times 5)$	8.4(8.0)
2.2	2R2						!		!		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						i	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		1		İ
220	221	6.3×5	96	□ 8×5	110 (90)	8×5	135		1		I I		I I		I
330	331	8×5	145	8×5	170		!		1				!	Case size	Rated
470	171	05	105		i		i		i		i		i	φDvI (mm)	rinnle

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

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

Frequency coefficient of rated ripple current

	. ,						
Frequency		50 Hz	120 Hz	300 Hz	1 kHz	10kHz 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UMA1H0R1MDD UMA1H100MDD UMA1H100MDD1TP UMA1E3R3MCD2 UMA1E470MDD UMA1H220MDD

UMA1H2R2MDD UMA1HR33MDD UMA1V4R7MDD UMA1E4R7MDD UMA1H010MDD UMA1H4R7MDD

UMA1V3R3MDD UMA1V470MDD UMA1H330MDD UMA1H3R3MDD UMA1V220MDD UMA1V2R2MCD2

UMA1V330MDD UMA1HR47MDD UMA1V100MDD UMA1H100MDD1TE UMA1H330MDD1TP UMA1E3R3MCD2TP

UMA1H2R2MDD1TP UMA1V470MDD1TP UMA1H3R3MDD1TP UMA1H010MDD1TP UMA1E4R7MDD1TP

UMA1HR47MDD1TP UMA1E330MDD1TP UMA1E470MDD1TP UMA1H4R7MDD1TP UMA1V100MDD1TP

UMA1V3R3MDD1TP UMA1V330MDD1TP UMA1HR22MDD1TP UMA1V2R2MCD2TP UMA1H220MDD1TP

UMA1V220MDD1TP UMA1H0R1MDD1TP UMA1HR33MDD1TP

UMA1V220MDD1TP UMA1H0R1MDD1TP UMA1HR33MDD1TP