# ALUMINUM ELECTROLYTIC CAPACITORS

# nichicon

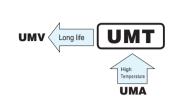


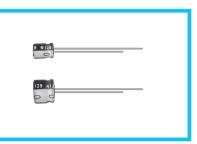
5mmL, Wide Temperature Range

Ø Anti-Solvent Feature

•Wide temperature range of -55 to +105°C, with 5mm height.

• Compliant to the RoHS directive (2011/65/EU).

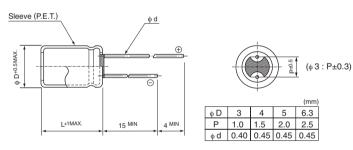




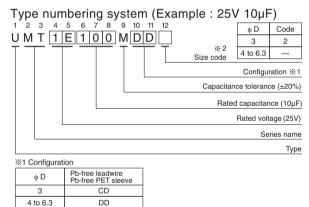
### Specifications

Item	Performance Characteristics											
Category Temperature Range	-55 to +105°C											
Voltage Range	4 to 50V											
Rated Capacitance Range	1 to 100µF											
Rated Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' ap	plication of r	rated volta	age	at 20°C, le	akage cur	rent is n	ot more	than 0	01CV or 3	(µA), whiche	ver is greater.
	Measurement frequency : 120Hz at 20°C											
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	4	6.3		10	16	25		35	50	Figures in (	) are for
	tan δ (MAX.)	0.37	0.28		0.24	0.20	0.16	0.16 0.13 (0.14)		0.12 (0.14)	φ 3 product.	
	Measurement frequency : 120Hz											
	Rated voltage (V)				6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+	Z+20°C 6		3	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+	⊦20°C	12	8	5	4	3	3	3		
Endurance	The specifications I when the capacitors	Capacitan	Capacitance change Within $\pm 25\%$ of the initial capacitance value ( $\phi$ 3mm unit,and Within $\pm 20\%$ of the initial capacitance value ( $\ge 25V$ )					init,and ≦ 16V)				
	after the rated volta	tan δ		200% or less than the initial specified value								
	hours at 105°C.	Leakage c	Leakage current Less than or equal to the initial specified value									
Shelf Life	After storing the capacitors under no load at 105°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 color letter on black sleeve.											

## Radial Lead Type



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



%2~ For  $_{\varphi}$  3mm unit, place size code of  $\fbox{2}$  to 12th digit.

#### Dimensions

	V	4		6.3		10		16		25		35		50	
Cap.(µF) Code OG			OJ		1A		1C		1E		1V		1H		
1	010												1	•4×5	6.2(5.9)
2.2	2R2										1	3 × 5	7.5	•4×5	11 (9)
3.3	3R3		1		1		1				1	• 4 × 5	11 (9)	4×5	14
4.7	4R7		1				1			•4×5	13 (10)	4 × 5	15	5×5	19
10	100							• 4×5	18 (14)	5×5	23	5×5	25	6.3×5	30
22	220	4×5	22	4×5	22	5×5	27	5×5	30	6.3×5	38	6.3×5	48		
33	330	5×5	30	5×5	30	5×5	35	6.3×5	40	6.3×5	48		1		1
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50		1		1	Case size	Rated
100	101	6.3×5	60	6.3 × 5	60		i I				1		1	φD×L (mm)	ripple

Size  $\phi 3 \times 5$  is available for capacitors marked "• " Figures in ( ) are for  $\phi 3$  product.

## • 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

Rated ripple current (mArms) at 105°C 120Hz

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

