

ALUMINUM ELECTROLYTIC CAPACITORS

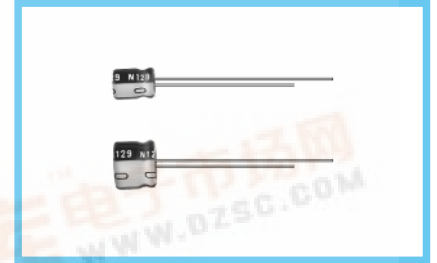
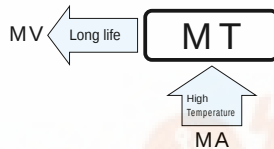
nichicon

MT

5mmL, Wide Temperature Range
series

Anti-Solvent
Feature

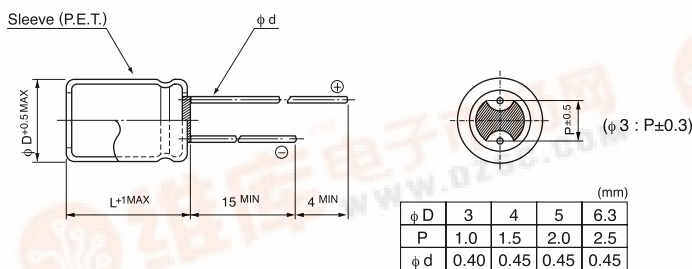
- Wide temperature range of $-55 \sim +105^{\circ}\text{C}$, with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).



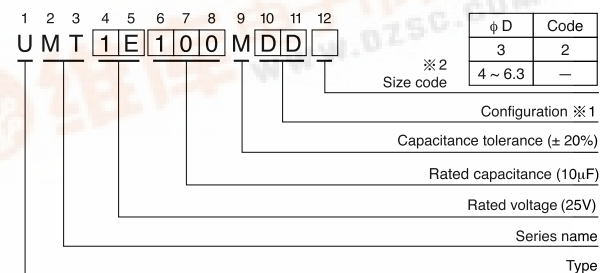
Specifications

Item	Performance Characteristics								
Category Temperature Range	-55 ~ +105℃								
Voltage Range	4 ~ 50V								
Rated Capacitance Range	0.1 ~ 100μF								
Rated Capacitance Tolerance	±20% at 120Hz, 20℃								
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.								
tan δ	Measurement frequency : 120Hz, Temperature : 20℃								
	Rated voltage (V)	4	6.3	10	16	25	35	50	Figures in () are for φ 3 product.
	tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13 (0.14)	0.12 (0.14)	
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)		4	6.3	10	16	25	35	50
	Impedance ratio	Z-25℃ / Z+20℃	6	3	3	2	2	2	2
	ZT / Z20 (MAX.)	Z-40℃ / Z+20℃	12	8	5	4	3	3	3
Endurance	After 1000 hours' application of rated voltage at 105℃, capacitors meet the characteristic requirements listed at right.		Capacitance change		Within ±25% of initial value (φ 3mm unit, and ≤ 16V) Within ±20% of initial value (≥ 25V)				
			tan δ		200% or less of initial specified value				
			Leakage current		Initial specified value or less				
Shelf Life	After storing the capacitors under no load at 105℃ for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃, 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 configuration.

Type numbering system (Example : 25V 10 μF)

※1 Configuration

ϕD	Pb-free leadwire Pb-free PET sleeve
3	CD
4 ~ 6.3	DD

※2 For $\phi 3\text{mm}$ unit, place size code of 2 to 12th digit.

Dimensions

Cap.(μF)	V	4		6.3		10		16		25		35		50	
	Code	0G		0J		1A		1C		1E		1V		1H	
0.1	0R1													● 4×5	1.0
0.22	R22													● 4×5	2.6
0.33	R33													● 4×5	3.2
0.47	R47													● 4×5	3.8
1	010													● 4×5	6.2 (5.9)
2.2	2R2											3 × 5	7.5	● 4×5	11 (9)
3.3	3R3											● 4 × 5	11 (9)	4 × 5	14
4.7	4R7									● 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				
47	470	5×5	36	5×5	36	6.3×5	46	6.3×5	50						
100	101	6.3×5	60	6.3 × 5	60									Case size φD×L (mm)	Rated ripple

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

Rated Ripple (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz ~
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Please refer to page 21, 22, 23 about the formed or taped product spec