ALUMINUM ELECTROLYTIC CAPACITORS

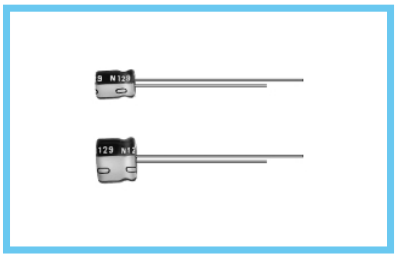
nichicon

MT series

5mmL, Wide Temperature Range

Anti-Solvent Feature

- Wide temperature range of −55 ~ +105°C, with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).



MV ← Long life — MT — ↑ High Temperature — MA

■Specifications

Item	Performance Characteristics
Category Temperature Range	−55 ~ +105°C
Voltage Range	4 ~ 50V
Rated Capacitance Range	0.1 ~ 100μF
Rated Capacitance Tolerance	±20% at 120Hz, 20°C
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°C

Rated voltage (V)	4	6.3	10	16	25	35	50
tan δ (MAX.)	0.37	0.28	0.24	0.20	0.16	0.13 (0.14)	0.12 (0.14)

Figures in ( ) are for φ3 product.

Stability at Low Temperature — Measurement frequency : 120Hz

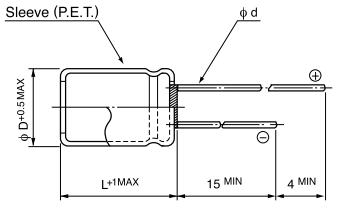
Rated voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio ZT / Z20 (MAX.)	Z−25°C / Z+20°C	6	3	3	2	2	2	2
	Z−40°C / Z+20°C	12	8	5	4	3	3	3

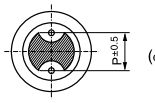
Endurance — After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance change	Within ±25% of initial value (φ3mm 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°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





(mm)

φD	3	4	5	6.3
P	1.0	1.5	2.0	2.5
φd	0.40	0.45	0.45	0.45

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

Type numbering system (Example : 25V 10μF)

1	2	3	4	5	6	7	8	9	10	11	12
U	M	T	1	E	1	0	0	M	D	D	

※2 Size code

φD	Code
3	2
4 ~ 6.3	—

Configuration ※1
Capacitance tolerance (± 20%)
Rated capacitance (10μF)
Rated voltage (25V)
Series name
Type

※1 Configuration

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

※2 For φ3mm 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					Case size φD×L (mm)	Rated ripple
100	101	6.3×5	60	6.3 × 5	60										

Size φ3 × 5 is available for capacitors marked "●"
Figures in ( ) are for φ 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 ~
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.