ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

MT

5mmL, Wide Temperature Range

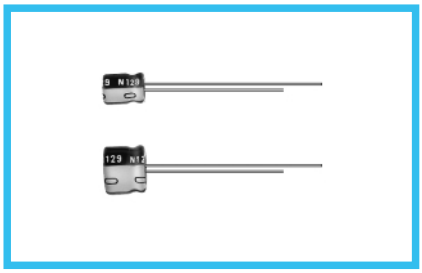
series

Anti-Solvent Feature

- Wide temperature range of −55 to +105°C, with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).

MV Long life MT

High Temperature MA



■Specifications

Item	Performance Characteristics
Category Temperature Range	−55 to +105°C
Voltage Range	4 to 50V
Rated Capacitance Range	0.1 to 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.
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 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 φ 3 product.

Stability at Low Temperature — Measurement frequency : 120Hz

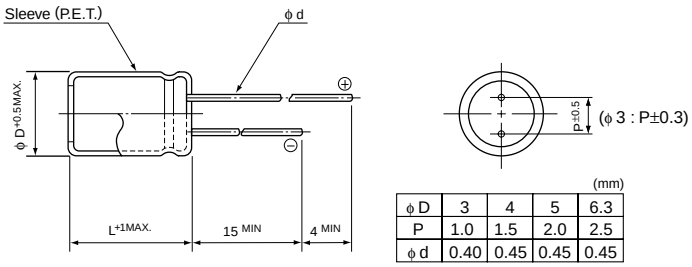
Rated voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio ZT / Z20 (MAX.)	Z−25°C / Z+20°C	6	3	3	2	2	2	2
	Z−40°C / Z+20°C	12	8	5	4	3	3	3

Endurance — The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C.

Capacitance change	Within ±25% of the initial capacitance value (φ 3mm unit,and ≦ 16V) Within ±20% of the initial capacitance value (≧ 25V)
tan δ	200% or less than the initial specified value
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



(mm)

φ D	3	4	5	6.3
P	1.0	1.5	2.0	2.5
φ d	0.40	0.45	0.45	0.45

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

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

φ D	Code
3	2
4 to 6.3	—

Configuration ※1

Capacitance tolerance (± 20%)

Rated capacitance (10μF)

Rated voltage (25V)

Series name

Type

※1 Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
3	CD
4 to 6.3	DD

※2 For φ 3mm unit, place size code of 2 to 12th digit.

■Dimensions

Cap.(μF) \ V	Code	4		6.3		10		16		25		35		50	
		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 current (mArms) at 105°C 120Hz

●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.

Mouser Electronics

Authorized Distributor

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

Nichicon:

UMT0G101MDD UMT0J470MDD UMT1A220MDD UMT1A330MDD UMT1E220MDD UMT1E330MDD UMT0J220MDD UMT0J330MDD UMT0G470MDD UMT0J101MDD UMT1C100MDD UMT1C220MDD UMT1C330MDD UMT0G220MDD UMT0G330MDD UMT1A470MDD UMT1A470MDD1TE UMT1A470MDH1TE UMT1C100MCD2 UMT1E4R7MCD2 UMT1E4R7MDD UMT1H010MCD2 UMT1H3R3MDD UMT1H4R7MDD UMT1V2R2MCD2 UMT1V3R3MCD2 UMT1V3R3MDD UMT1C470MDD UMT1C470MDH UMT1E100MDD UMT1H100MDD UMT1H2R2MCD2 UMT1H2R2MDD UMT1V100MDD UMT1V220MDD UMT1H010MDD UMT1H0R1MCD2 UMT1H0R1MDD UMT1HR33MDD UMT1HR47MCD2 UMT1HR47MDD UMT1HR22MCD2 UMT1HR22MDD UMT1HR33MCD2 UMT1V4R7MDD UMT0J101MDD1TP UMT1HR22MCD2TP UMT0G101MDD1TP UMT1H2R2MCD2TP UMT1HR33MCD2TP UMT1V3R3MCD2TP UMT1H0R1MCD2TP UMT0G330MDD1TP UMT1A220MDD1TP UMT1H010MCD2TP UMT0J330MDD1TP UMT1C220MDD1TP UMT1V100MDD1TP UMT1H100MDD1TP UMT1E220MDD1TP UMT1H4R7MDD1TP UMT1E330MDD1TP UMT0J220MDD1TP UMT1C100MDD1TP UMT1E4R7MCD2TP UMT1E100MDD1TP UMT1V220MDD1TP UMT1H010MDD1TP UMT1C330MDD1TP UMT1V4R7MDD1TP UMT1HR47MCD2TP UMT1C100MCD2TP UMT0G470MDD1TP UMT1A330MDD1TP UMT1A470MDD1TP UMT1E4R7MDD1TP UMT1C470MDD1TP UMT1V2R2MCD2TP