

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

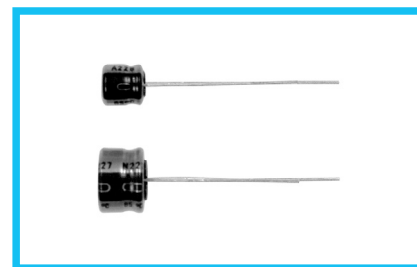
MW series 5mmL, For General Audio Equipment



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



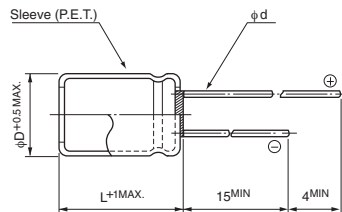
MW



Specifications

Item	Performance Characteristics							
Category Temperature Range	-40 to +85°C							
Rated Voltage Range	4 to 50V							
Rated Capacitance Range	0.1 to 470μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 2 minutes' application of rated voltage at 20°C, 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.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	4	6.3	10	16	25	35	50
	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
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 85°C.							
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.							
Marking	Printed with black color letter on gold sleeve.							

Radial Lead Type



	(mm)			
φD	4	5	6.3	8
P	1.5	2.0	2.5	2.5
φd	0.45	0.45	0.45	0.45

Type numbering system (Example : 25V 10μF)

1	2	3	4	5	6	7	8	9	10	11
U	M	W	1	E	1	0	0	M	D	D
			Configuration※		Capacitance tolerance (±20%)		Rated capacitance (10μF)		Rated voltage (25V)	
									Series name	
									Type	

※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
4 to 8	DD

Dimensions

Cap.(μF)	code	V	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 2.0
0.33	R33								4 × 5 2.8
0.47	R47								4 × 5 4.0
1	010								4 × 5 8.4
2.2	2R2								4 × 5 13
3.3	3R3							4 × 5 15	4 × 5 17
4.7	4R7						4 × 5 16	4 × 5 18	5 × 5 20
10	100					4 × 5 23	5 × 5 27	5 × 5 29	6.3 × 5 33
22	220		4 × 5 28	5 × 5 33	5 × 5 37	6.3 × 5 42	6.3 × 5 46	8 × 5 52	
33	330	4 × 5 28	5 × 5 37	5 × 5 41	6.3 × 5 49	6.3 × 5 52	8 × 5 62	8 × 5 71	
47	470	4 × 5 33	5 × 5 45	6.3 × 5 52	6.3 × 5 58	8 × 5 70	8 × 5 80		
100	101	5 × 5 56	6.3 × 5 70	8 × 5 80	8 × 5 92	8 × 5 110			
220	221	6.3 × 5 96	8 × 5 110	8 × 5 135					
330	331	8 × 5 145	8 × 5 170						
470	471	8 × 5 185							
									Case size φD × L Rated ripple (mm)

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.

Rated ripple current(mArms) at 85°C 120Hz

CAT.8100D