

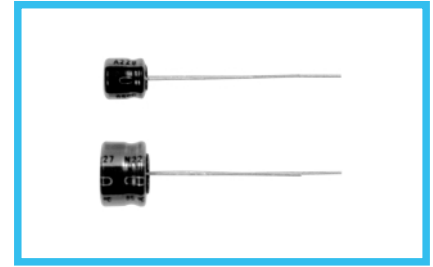
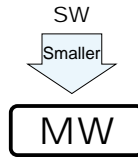
# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

**MW** series 5mmL, For General Audio Equipment



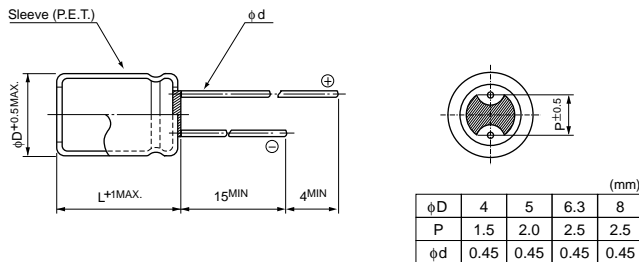
- Acoustic series, with 5mm height.
- Compliant to the RoHS directive (2011/65/EU).



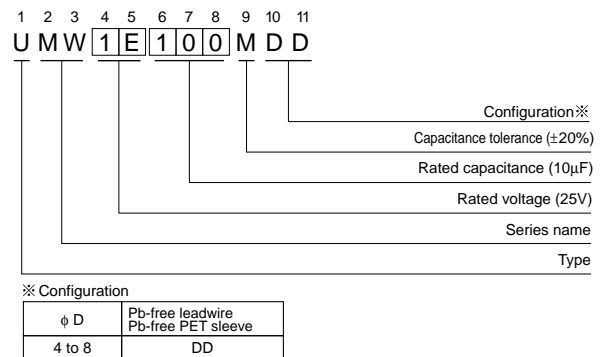
## Specifications

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, 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



## Type numbering system (Example : 25V 10μF)



## Dimensions

V		4		6.3		10		16		25		35		50	
Cap.(μF)	code	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									Case size φD×L	Rated
470	471	8×5	185											(mm)	ripple

Rated ripple current(mArms) at 85°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.

CAT.8100C