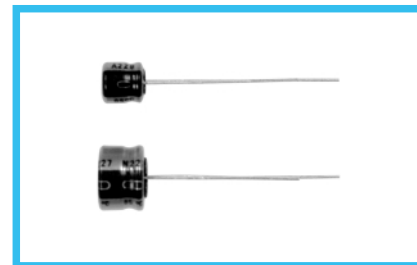
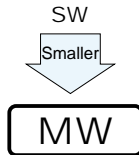


# ALUMINUM ELECTROLYTIC CAPACITORS

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



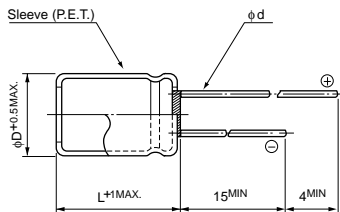
- Acoustic series, with 5mm height.
- Compliant to the RoHS directive (2002/95/EC).



## Specifications

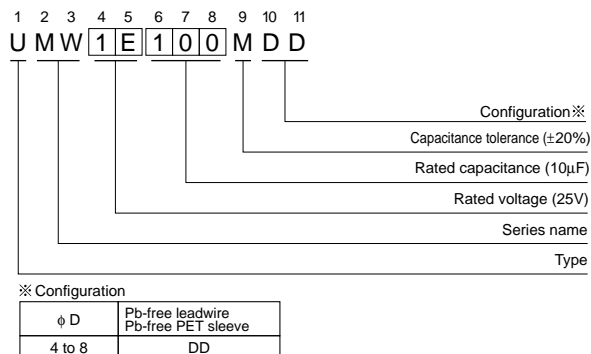
Item	Performance Characteristics							
Category Temperature Range	-40 to +85°C							
Rated Voltage Range	4 to 50V							
Rated Capacitance Range	0.1 to 470μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not 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
	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.		Capacitance change		Within ±20% of the initial capacitance value			
			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 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)



## Dimensions

Cap. (μF)	code	V								Case size φD×L (mm)	Rated ripple (mArms)	
		4	6.3	10	16	25	35	50				
0.1	0R1	0G										
0.22	R22											4×5 1.0
0.33	R33											4×5 2.0
0.47	R47											4×5 2.8
1	010											4×5 4.0
2.2	2R2											4×5 8.4
3.3	3R3											4×5 13
4.7	4R7											4×5 17
10	100											4×5 20
22	220											4×5 29
33	330	4×5	28	5×5	37	5×5	41	6.3×5	49	6.3×5	52	8×5 33
47	470	4×5	33	5×5	45	6.3×5	52	6.3×5	58	8×5	70	8×5 52
100	101	5×5	56	6.3×5	70	8×5	80	8×5	92	8×5	110	8×5 71
220	221	6.3×5	96	8×5	110	8×5	135					8×5 80
330	331	8×5	145	8×5	170							8×5 80
470	471	8×5	185									8×5 110

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.

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