

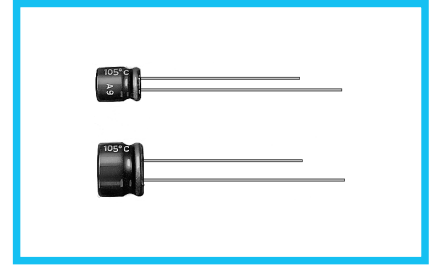
# ALUMINUM ELECTROLYTIC CAPACITORS

**MF** 5mmL, Low Impedance  
series



- Low impedance over wide temperature range of  $-55$  to  $+105^{\circ}\text{C}$ , with 5mm height.
- Suited for DC-DC converters where smaller case size and lower impedance are required.
- Compliant to the RoHS directive (2011/65/EU).

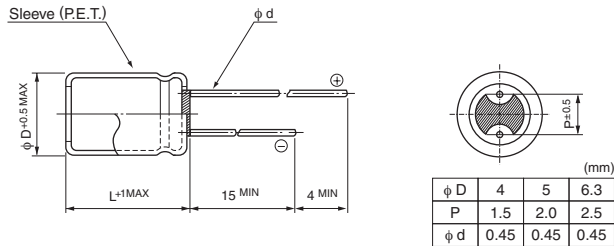
**MF** ← Low Impedance **MT**



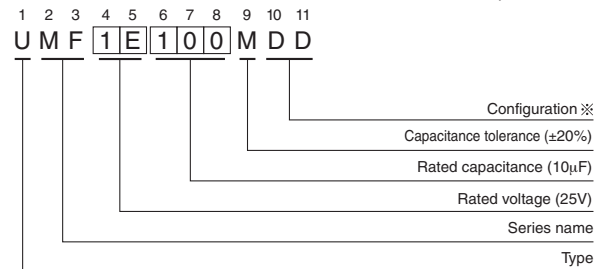
## Specifications

Item	Performance Characteristics				
Category Temperature Range	$-55$ to $+105^{\circ}\text{C}$				
Rated Voltage Range	6.3 to 35V				
Rated Capacitance Range	1 to $100\mu\text{F}$				
Rated Capacitance Tolerance	$\pm 20\%$ at 120Hz, $20^{\circ}\text{C}$				
Leakage Current	After 2 minutes' application of rated voltage at $20^{\circ}\text{C}$ , leakage current is not more than $0.01\text{CV}$ or $3 (\mu\text{A})$ , whichever is greater.				
Tangent of loss angle (tan $\delta$ )	Measurement frequency : 120Hz at $20^{\circ}\text{C}$				
	Rated voltage (V)	6.3	10	16	25
Stability at Low Temperature	Measurement frequency : 120Hz				
	Impedance ratio	Z $-25^{\circ}\text{C}$ / Z $+20^{\circ}\text{C}$	2	2	2
Endurance	The specifications listed at right shall be met when the capacitors are restored to $20^{\circ}\text{C}$ after the rated voltage is applied for 1000 hours at $105^{\circ}\text{C}$ .				
	Capacitance change	Within $\pm 20\%$ of the initial capacitance value			
Shelf Life	After storing the capacitors under no load at $105^{\circ}\text{C}$ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at $20^{\circ}\text{C}$ , they shall meet the specified values for the endurance characteristics listed above.				
	tan $\delta$	200% or less than the initial specified value			
Marking	Printed with white color letter on dark brown sleeve.				
	Leakage current	Less than or equal to the initial specified value			

## Radial Lead Type



## Type numbering system (Example : 25V $10\mu\text{F}$ )



※ Configuration

$\phi D$	Pb-free leadwire Pb-free PET sleeve
4 to 6.3	DD

## Dimensions

Cap. ( $\mu\text{F}$ )	Code	6.3			10			16			25			35			
		0J			1A			1C			1E			1V			
1	010														4 x 5	5.0	50
1.5	1R5														4 x 5	5.0	50
2.2	2R2														4 x 5	5.0	50
3.3	3R3														4 x 5	5.0	50
4.7	4R7										4 x 5	5.0	50		4 x 5	5.0	50
6.8	6R8										4 x 5	5.0	50		5 x 5	2.6	80
10	100								4 x 5	5.0	50	5 x 5	2.6	80	5 x 5	2.6	80
15	150								5 x 5	2.6	80	6.3 x 5	1.3	115	6.3 x 5	1.3	115
22	220	4 x 5	5.0	50	5 x 5	2.6	80	5 x 5	2.6	80	6.3 x 5	1.3	115	6.3 x 5	1.3	115	
33	330	5 x 5	2.6	80	5 x 5	2.6	80	6.3 x 5	1.3	115	6.3 x 5	1.3	115				
47	470	5 x 5	2.6	80	6.3 x 5	1.3	115	6.3 x 5	1.3	115							
68	680	6.3 x 5	1.3	115													
100	101	6.3 x 5	1.3	115													

Max. Impedance ( $\Omega$ ) at  $20^{\circ}\text{C}$  100kHz  
Rated ripple current (mA rms) at  $105^{\circ}\text{C}$  100kHz

## Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

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.8100D