

ALUMINUM ELECTROLYTIC CAPACITORS

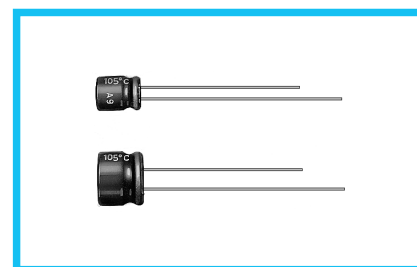
nichicon

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).

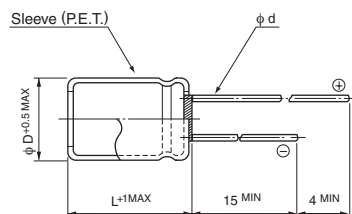
MF Low Impedance **MT**



Specifications

Item	Performance Characteristics												
Category Temperature Range	−55 to +105°C												
Rated Voltage Range	6.3 to 35V												
Rated Capacitance Range	1 to 100μF												
Rated 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)	6.3	10	16	25	35							
	tan δ (MAX.)	0.22	0.20	0.18	0.14	0.12							
Stability at Low Temperature	Measurement frequency : 120Hz												
	Rated voltage (V)		6.3	10	16	25	35						
	Impedance ratio	Z−25°C / Z+20°C	2	2	2	2	2						
	ZT / Z20 (MAX.)	Z−55°C / Z+20°C	4	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. <table><tr><td>Capacitance change</td><td>Within ±20% of the initial capacitance value</td></tr><tr><td>tan δ</td><td>200% or less than the initial specified value</td></tr><tr><td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr></table>							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
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tan δ	200% or less than the initial specified value												
Leakage current	Less than or equal to the initial specified value												
Shelf Life	After storig 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 dark brown sleeve.												

Radial Lead Type



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

Type numbering system (Example : 25V 10 μF)

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

※ Configuration

φD	Pb-free leadwire Pb-free PET sleeve
4 to 6.3	DD

Dimensions

V		6.3			10			16			25			35				
Cap.(μF)	Code	0J			1A			1C			1E			1V				
1	010													4×5	5.0	50		
1.5	1R5													4×5	5.0	50		
2.2	2R2													4×5	5.0	50		
3.3	3R3													4×5	5.0	50		
4.7	4R7											4×5	5.0	50	4×5	5.0	50	
6.8	6R8											4×5	5.0	50	5×5	2.6	80	
10	100							4×5	5.0	50		5×5	2.6	80	5×5	2.6	80	
15	150							5×5	2.6	80		6.3×5	1.3	115	6.3×5	1.3	115	
22	220	4×5	5.0	50	5×5	2.6	80	5×5	2.6	80		6.3×5	1.3	115	6.3×5	1.3	115	
33	330	5×5	2.6	80	5×5	2.6	80	6.3×5	1.3	115		6.3×5	1.3	115				
47	470	5×5	2.6	80	6.3×5	1.3	115	6.3×5	1.3	115								
68	680	6.3×5	1.3	115														
100	101	6.3×5	1.3	115														
																Case size øD×L (mm)	Impedance	Rated ripple

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

Max. Impedance (Ω) at 20°C 100kHz
Rated ripple current (mA rms) at 105°C 100kHz

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

Mouser Electronics

Authorized Distributor

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