Aluminum Electrolytic Capacitors **MR** Series

Features

- 105℃ with 7mm height

Specification

Items	Performance
Capacitance Tolerance	±20 % (at 120Hz, 25 ℃)
Rated Voltage Range	4 to 50 VDC
Capacitance Range	0.47 to 470 uF
Operating Temperature Range	-40 to + 105℃
Leakage Current (at 25℃)	I≦0.02 CV or 3 (uA), whichever is greater. After 3 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)
Dissipation Factor (Tan δ at 120Hz, 25℃)	
Low Temperature characteristics (at 120Hz)	Impedance ration max.
Load Life	After 1000 hours application of W.V. at 105℃. the capacitor shall meet the followin limits. Capacitance change : ≦±25% of initial value Dissipation factor : ≦200% of initial specified value Leakage Current : ≦Initial specified value
Shelf Life	After storage for 500 hours at 105℃, with no voltage applied and being stabilixed at + 25℃, Capacitor shall meet the limit specifed in load life.
Ripple Current & Frequency Multipliers	
Ripple Current & Temperature Multipliers	
Standards	Satisfied Characteristic W of JIS C

Rate Voltage	4	6.3	10	16	25	35	50
Tan δ (max)	0.35	0.24	0.2	0.17	0.15	0.12	0.10

Rate Voltage	4	6.3	10	16	25	35	50
-25℃/25℃	7	4	3	2	2	2	2
-40℃/25℃	15	10	8	6	4	3	3

Freq.(Hz) / Cap.(uF)	60 (50)	120	1K	10K	100K
Under 47	0.70	0.90	1.00	1.10	1.10
100 to 470	0.80	0.90	1.00	1.00	1.00

Temperature (℃)	85	105
Multiplier	1.00	0.90

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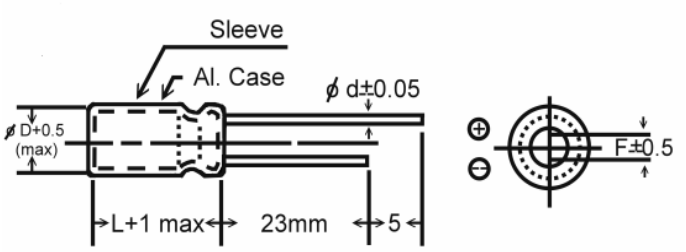

D	4	5	6.3	8
F	1.5	2.0	2.5	3.5
d	0.45			0.5

Dimension : ψD x L (mm)

Ripple Current : mA/rms at 120Hz,105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC / uF	4V		6.3V		10V		16V		25V		35V		50V	
	ψDxL	mA	ψDxL	mA	ψDxL	mA	ψDxL	mA	ψDxL	mA	ψDxL	mA	ψDxL	mA
0.1													4x7	1
0.22													4x7	1
0.33													4x7	2
0.47													4x7	4
1													4x7	7
2.2													4x7	15
3.3													4x7	19
4.7													4x7	20
10									4x7	25	5x7	27	5x7	28
22							4x7	30	5x7	35	6.3x7	40	6.3x7	45
33					4x7	35	5x7	35	6.3x7	40	6.3x7	46	8x9	52
47					4x7	40	5x7	50	6.3x7	60	6.3x7	65	8x9	68
100			5x7	60	5x7	80	6.3x7	85	8x7 8x9	90	8x9	92		
220			6.3x7	110	6.3x7	115	8x7	120	8x9	120				
330			8x7	120	8x7 8x9	140	8x7	140						
470	8x7	120	8x7 8x9	120	8x9	140	8x9	140						