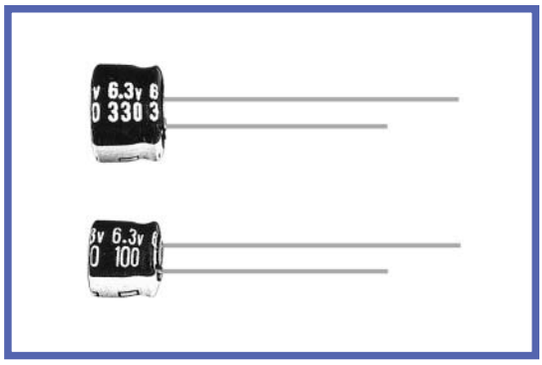
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MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS MS5

MS5 SERIES

85°C 5mm Height.



◆FEATURES

- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+85°C
Rated Voltage Range	4～50V.DC
Capacitance Tolerance	±20% (20°C, 120Hz)
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
(tanδ) Dissipation Factor(MAX)	(20°C, 120Hz)
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 85℃, the capacitors shall meet the following requirements.
Low Temperature Stability Impedance Ratio(MAX)	(120Hz)

Rated Voltage (V)	4	6.3	10	16	25	35	50
tan δ	0.35	0.26	0.22	0.18	0.16	0.14	0.12

Capacitance Change	Within ±25% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Rated Voltage (V)	4	6.3	10	16	25	35	50
Z(−25°C)/Z(20°C)	7	6	4	4	3	2	2
Z(−40°C)/Z(20°C)	15	12	10	8	6	4	4

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k ≦
Coefficient	0.1～1 μF	0.50	1.0	1.20	1.30	1.50
	1.5～6.8 μF	0.65	1.0	1.20	1.30	1.50
	10～68 μF	0.8	1.0	1.20	1.30	1.50
	100～470 μF	0.8	1.0	1.10	1.15	1.20

◆PART NUMBER

□□□	MS5	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

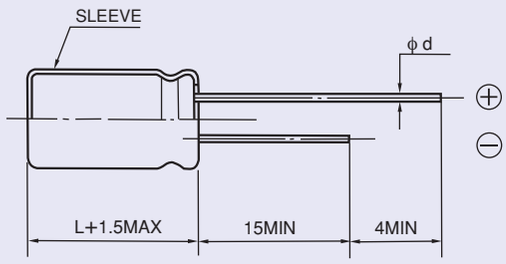
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MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS MS5

◆DIMENSIONS

(mm)



ϕ D	4	5	6.3	8
ϕ d	0.45			
F	1.5	2.0	2.5	

◆STANDARD SIZE

Size ϕ D×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV (V.DC) / Cap(μF)	4 (0G)		6.3 (0J)		10 (1A)		16 (1C)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7							4×5	11
6.8					4×5	10	4×5	13
10			4×5	14	4×5	16	4×5	18
15			4×5	18	4×5	22	5×5	26
22	4×5	20	4×5	22	5×5	30	5×5	35
33	4×5	27	5×5	34	5×5	45	6.3×5	51
47	4×5	37	5×5	37	6.3×5	50	6.3×5	65
68	5×5	45	6.3×5	55	6.3×5	59	6.3×5	70
100	5×5	62	6.3×5	62	6.3×5	80	8×5	92
220	6.3×5	74	8×5	120	8×5	145		
330	8×5	145	8×5	145				
470	8×5	181						

WV (V.DC) / Cap(μF)	25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple
0.1					4×5	1
0.15					4×5	1.5
0.22					4×5	2.5
0.33					4×5	4
0.47					4×5	6
0.68					4×5	7
1					4×5	8.6
1.5					4×5	8.7
2.2			4×5	9	4×5	9.1
3.3	4×5	11	4×5	12	4×5	13
4.7	4×5	13	4×5	14	5×5	20
6.8	4×5	19	5×5	20	6.3×5	26
10	5×5	27	5×5	27	6.3×5	31
15	5×5	33	6.3×5	35	6.3×5	39
22	6.3×5	46	6.3×5	46	8×5	60
33	6.3×5	54	8×5	65	8×5	80
47	6.3×5	65	8×5	85		
68	8×5	90				
100	8×5	120				