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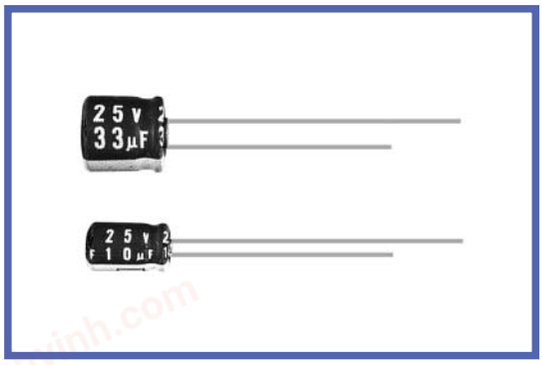
Rubycon | MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS | MS7

MS7 SERIES

85°C 7mm Height.

◆FEATURES

- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+85°C
Rated Voltage Range	4～63V.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)

Dissipation Factor(MAX):

Rated Voltage (V)	4	6.3	10	16	25	35	50	63
tan δ	0.35	0.24	0.20	0.17	0.15	0.13	0.10	0.10

Endurance:

Capacitance Change	Within ±20% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.
Leakage Current	Not more than the specified value.

Low Temperature Stability Impedance Ratio(MAX):

Rated Voltage(V)	4	6.3	10	16	25	35	50	63
Z(−25°C)/Z(20°C)	7	4	3	3	2	2	2	2
Z(−40°C)/Z(20°C)	15	10	8	6	4	4	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
	2.2～4.7 μF	0.65	1.0	1.20	1.30	1.50
	10～47 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

□□□	MS7	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

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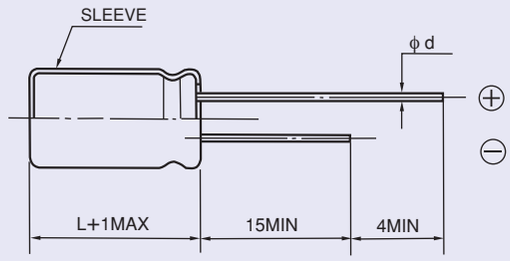
◆DIMENSIONS

(mm)



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

◆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
10							4×7	28
22			4×7	34	4×7	38	4×7	42
33	4×7	33	4×7	42	4×7	46	5×7	62
47	4×7	39	4×7	50	5×7	66	5×7	73
100	5×7	65	5×7	87	6.3×7	99	6.3×7	110
220	6.3×7	110	6.3×7	133	8×7	165	8×7	145
330	8×7	165	8×7	180	8×7	210		
470	8×7	190						

WV (V.DC) / Cap(μF)	25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1					4×7	1.3	4×7	1.3
0.22					4×7	3.0	4×7	3.0
0.33					4×7	4.4	4×7	4.4
0.47					4×7	6.3	4×7	6.3
1					4×7	12	4×7	12
2.2					4×7	16	4×7	16
3.3			4×7	18	4×7	19	5×7	24
4.7	4×7	21	4×7	22	4×7	24	6.3×7	33
10	4×7	31	5×7	32	5×7	42	6.3×7	45
22	5×7	55	6.3×7	60	6.3×7	64		
33	6.3×7	66	6.3×7	73	8×7	75		
47	6.3×7	80	8×7	95	8×7	85		
100	8×7	115	8×7	115				