

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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#### RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

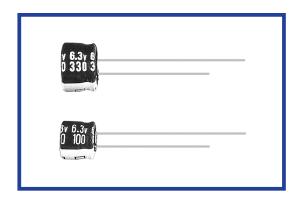
MS<sub>5</sub>

# MS5 SERIES

## 85°C 5mm Height

\*8Load Life: 85°C 1000 hours.





#### **SPECIFICATIONS**

Items	Characteristics							
Category Temperature Range	-40~+85°C							
Rated Voltage Range	4~50Vdc							
Capacitance Tolerance	±20%(20°C,120Hz)							
Leakage Current(MAX)	I=0.01CV or $3\mu$ A whichever is greater.(After 2 minutes application of rated voltage)  I=Leakage Current( $\mu$ A)							
Dissipation Factor(MAX) (tanδ)	Rated Voltage 4 6.3 10 16 25 35 50 (20°C,120Hz) tanδ 0.35 0.26 0.22 0.18 0.16 0.14 0.12							
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 85°C, the capacitors shall meet the following requirements.  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.							
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)							

### **♦**MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.47~1μF	0.50	1.00	1.20	1.30	1.50
	1.5∼6.8µF	0.65	1.00	1.20	1.30	1.50
	10∼68µF	0.80	1.00	1.20	1.30	1.50
	100~470μF	0.80	1.00	1.10	1.15	1.20

#### **◆**OPTION

	Code
PET Sleeve	EFC

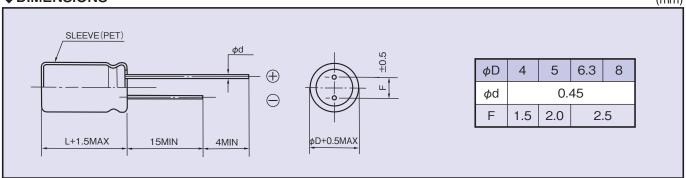
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Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

#### RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS







#### **♦STANDARD SIZE**

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

Vdc	4		6.3		10		16	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7		1		!		1 1 1	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						

Vdc	25		25 35		50	
Cap(µF)	Size	Ripple	Size	Ripple	Size	Ripple
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		:		