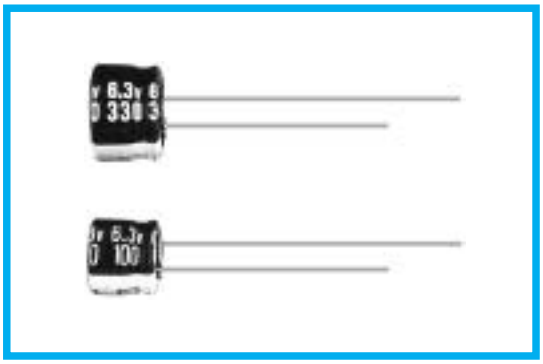
MS5 SERIES

85℃ 5mm Height.



◆FEATURES

- RoHS compliance.

MS5 → 105℃ Version → **MH5**

◆規格表 SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～＋85℃
Rated Voltage Range	4～50V.DC
Capacitance Tolerance	±20%（20℃，120Hz）
Leakage Current(MAX) (tan δ)	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)
Dissipation Factor(MAX)	(20℃，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 mpedance Ratio(MAX)	(120Hz)

Dissipation Factor(MAX)

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

Endurance

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 mpedance Ratio(MAX)

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

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

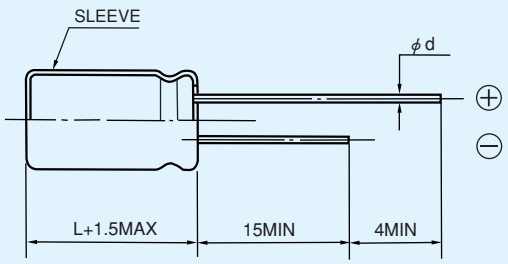
Frequency (Hz)		60(50)	120	500	1k	10k≦
Coefficient	0.1～1 μF	0.50	1.0	1.20	1.30	1.50
	1.5～6.8 μF	0.65	1.0	1.20	1.30	1.50
	10～68 μF	0.8	1.0	1.20	1.30	1.50
	100～470 μF	0.8	1.0	1.10	1.15	1.20

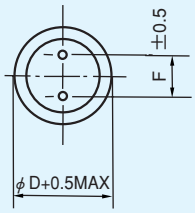
◆PART NUMBER

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

◆DIMENSIONS

(mm)





φD	3	3.5	4	5	6.3	8
φd	0.4		0.45			
F	1.0		1.5	2.0	2.5	

◆STANDARD SIZE, RATED RIPPLE CURRENT

Size φD×L(mm), Ripple Current (mA r.m.s./85℃, 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				

3mm DIA. is available for marked ● , and 3.5mm DIA. is available for marked ＊ when specified.