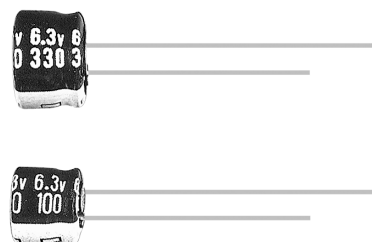


MS5 SERIES
85°C 5mm Height

•8Load Life : 85°C 1000 hours.

 RoHS
compliance

◆SPECIFICATIONS

Items	Characteristics																															
Category Temperature Range	-40~+85℃																															
Rated Voltage Range	4~50Vdc																															
Capacitance Tolerance	±20%(20℃,120Hz)																															
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater.(After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)																															
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tanδ</td><td>0.35</td><td>0.26</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td><td>0.12</td></tr></table> (20℃,120Hz)								Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	tanδ	0.35	0.26	0.22	0.18	0.16	0.14	0.12								
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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℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="7">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="7">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="7">Not more than the specified value.</td></tr></table>								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.						
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>7</td><td>6</td><td>4</td><td>4</td><td>3</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>15</td><td>12</td><td>10</td><td>8</td><td>6</td><td>4</td><td>4</td></tr></table> (120Hz)								Rated Voltage (Vdc)	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
Rated Voltage (Vdc)	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					
0.47~1 μF	0.50	1.00	1.20	1.30	1.50
1.5~6.8 μF	0.65	1.00	1.20	1.30	1.50
10~68 μF	0.80	1.00	1.20	1.30	1.50
100~470 μF	0.80	1.00	1.10	1.15	1.20

◆OPTION

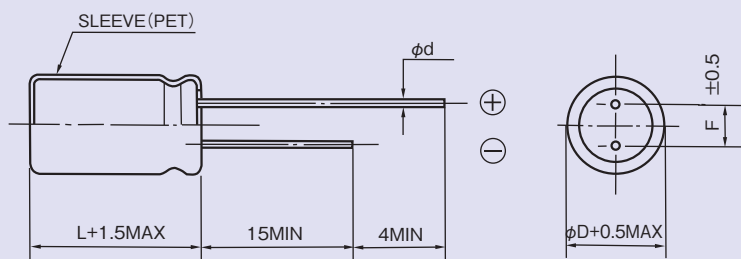
	Code
PET Sleeve	EFC

◆PART NUMBER

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

◆DIMENSIONS

(mm)



ϕD	4	5	6.3	8
ϕd	0.45			
F	1.5	2.0	2.5	

◆STANDARD SIZE

 Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

Vdc Cap(μF)	4		6.3		10		16	
	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						

Vdc Cap(μF)	25		35		50	
	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				