

MH5 SERIES

105°C 5mm Height

◆FEATURES

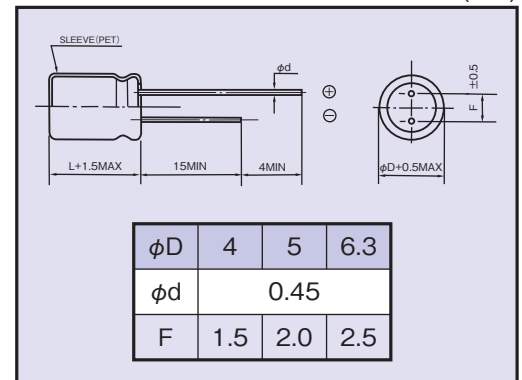
•RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40~+105℃																											
Rated Voltage Range	6.3~50Vdc																											
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)																											
(tanδ) Dissipation Factor(MAX)	<table><tr><td>Rated Voltage (Vdc)</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>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.13</td><td>0.12</td></tr></table> (20℃, 120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	tanδ	0.28	0.24	0.20	0.16	0.13	0.12							
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Endurance	After applying rated voltage with rated ripple current for 1000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="6">Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="6">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="6">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>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>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃) / Z(20℃)</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)							Rated Voltage (Vdc)	6.3	10	16	25	35	50	Z(-25℃) / Z(20℃)	3	3	2	2	2	2	Z(-40℃) / Z(20℃)	8	5	4	3	3	3
Rated Voltage (Vdc)	6.3	10	16	25	35	50																						
Z(-25℃) / Z(20℃)	3	3	2	2	2	2																						
Z(-40℃) / Z(20℃)	8	5	4	3	3	3																						

◆DIMENSIONS

(mm)



◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.47~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100μF	0.80	1.00	1.10	1.15	1.20

◆STANDARD SIZE

Size φD×L(mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

Vdc	Cap (μF)	Size (φD×L)	Rated Ripple Current
6.3	22	4×5	23
	33	5×5	30
	47	5×5	37
	100	6.3×5	57
10	22	5×5	28
	33	5×5	34
	47	6.3×5	52
	100	6.3×5	62

Vdc	Cap (μF)	Size (φD×L)	Rated Ripple Current
16	10	4×5	20
	22	5×5	31
	33	6.3×5	48
	47	6.3×5	56
	100	6.3×5	62
	10	5×5	22
25	22	6.3×5	44
	33	6.3×5	48
	47	6.3×5	56
	10	5×5	22

Vdc	Cap (μF)	Size (φD×L)	Rated Ripple Current
35	4.7	4×5	17
	10	5×5	24
	22	6.3×5	48
	0.47	4×5	4
50	1	4×5	8
	2.2	4×5	13
	3.3	4×5	14
	4.7	5×5	18
	10	6.3×5	28
	10	6.3×5	28

◆OPTION

	Code
PET Sleeve	EFC

◆PART NUMBER

□□□	MH5	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size