

MH7 SERIES

105°C 7mm Height.

◆FEATURES

- RoHS compliance.

MH7

Long Life

ML



◆SPECIFICATIONS

Items	Characteristics																					
Category Temperature Range	-40~+105℃																					
Rated Voltage Range	6.3~50V.DC																					
Capacitance Tolerance	±20% (20℃, 120Hz)																					
Leakage Current(MAX)	I=0.01CV or 3 μ A whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																					
Dissipation Factor(MAX) (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table> (20℃, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	tan δ	0.24	0.20	0.16	0.14	0.12	0.10							
Rated Voltage (V)	6.3	10	16	25	35	50																
tan δ	0.24	0.20	0.16	0.14	0.12	0.10																
Endurance	After applying rated voltage with rated ripple current for 1000 hrs at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>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 (V)</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>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>6</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	Z(-25℃)/Z(20℃)	3	2	2	2	2	2	Z(-40℃)/Z(20℃)	6	5	4	3	3	3
Rated Voltage (V)	6.3	10	16	25	35	50																
Z(-25℃)/Z(20℃)	3	2	2	2	2	2																
Z(-40℃)/Z(20℃)	6	5	4	3	3	3																

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

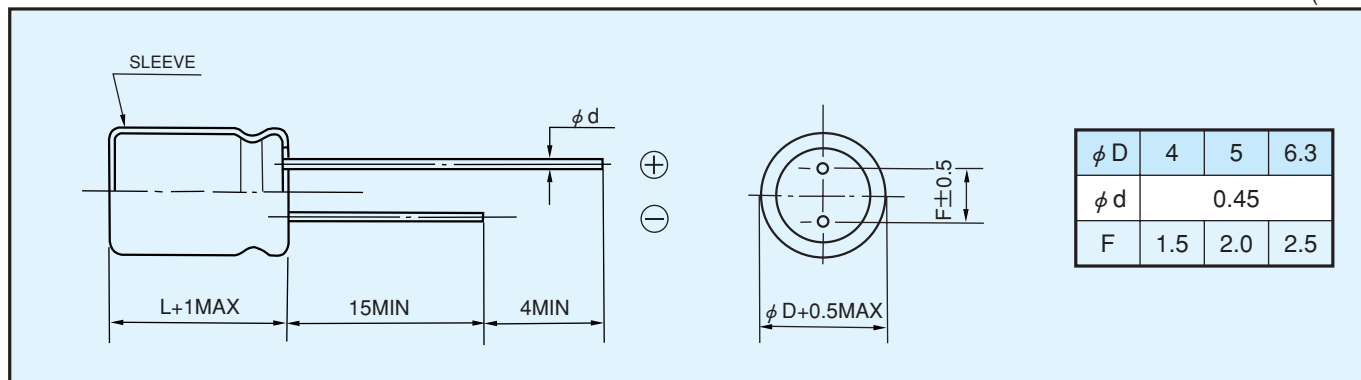
Frequency (Hz)	60(50)	120	500	1k	10k $\leq$
Coefficient					
0.1~1 μF	0.50	1.0	1.20	1.30	1.50
2.2~4.7 μF	0.65	1.0	1.20	1.30	1.50
10~47 μF	0.8	1.0	1.20	1.30	1.50
100 μF	0.8	1.0	1.10	1.15	1.20

◆PART NUMBER

 MH7 D×L
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆寸法図 DIMENSIONS

(mm)



◆STANDARD SIZE, RATED RIPPLE CURRENT

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 120Hz)

Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4×7	1.0
0.22											4×7	2.3
0.33											4×7	3.5
0.47											4×7	5
1											4×7	10
2.2											4×7	19
3.3											4×7	24
4.7									4×7	24	5×7	29
10					4×7	29	5×7	33	5×7	36	6.3×7	44
22	4×7	34	5×7	38	5×7	44	6.3×7	51	6.3×7	60	6.3×7	60
33	5×7	42	5×7	47	6.3×7	60	6.3×7	65	6.3×7	65		
47	5×7	50	6.3×7	65	6.3×7	70	6.3×7	70				
100	6.3×7	77	6.3×7	87	6.3×7	91						