

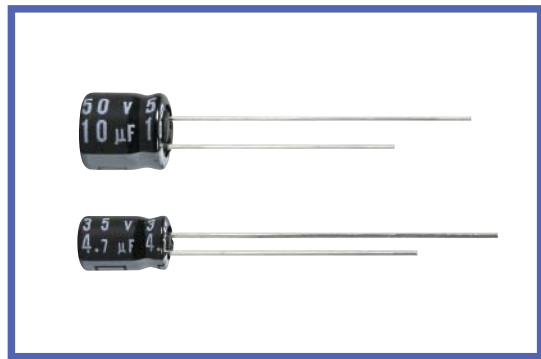


MH7 SERIES

105°C 7mm Height.

◆ **FEATURES**

- RoHS compliance.



◆ **SPECIFICATIONS**

Items	Characteristics																								
Category Temperature Range	-40 ~ +105°C																								
Rated Voltage Range	6.3~50V.DC																								
Capacitance Tolerance	± 20%(20°C,120Hz)																								
Leakage Current(MAX)	I=0.01CV or 3µA 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) (tanδ)	<table border="1"> <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> <td>(20°C,120Hz)</td> </tr> <tr> <td>tanδ</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> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)	tanδ	0.24	0.20	0.16	0.14	0.12	0.10									
Rated Voltage (V)	6.3	10	16	25	35	50	(20°C,120Hz)																		
tanδ	0.24	0.20	0.16	0.14	0.12	0.10																			
Endurance	<p>After applying rated voltage with rated ripple current for 1000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <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.																		
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)	<table border="1"> <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> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>	Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)	Z(-25°C)/Z(20°C)	3	2	2	2	2	2		Z(-40°C)/Z(20°C)	6	5	4	3	3	3	
Rated Voltage (V)	6.3	10	16	25	35	50	(120Hz)																		
Z(-25°C)/Z(20°C)	3	2	2	2	2	2																			
Z(-40°C)/Z(20°C)	6	5	4	3	3	3																			

◆ **MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

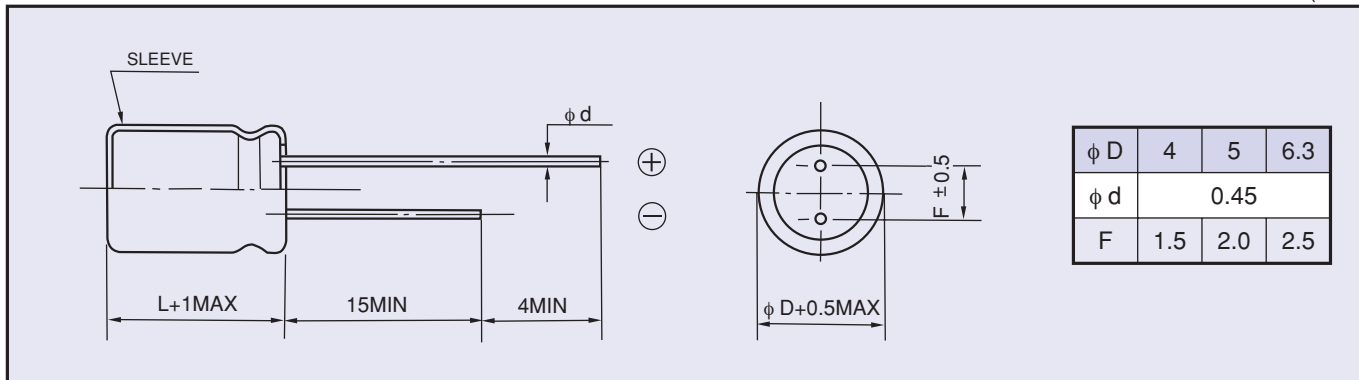
Frequency (Hz)		60(50)	120	500	1k	10k≤
Coefficient	0.1~1µF	0.50	1.0	1.20	1.30	1.50
	2.2~4.7µF	0.65	1.0	1.20	1.30	1.50
	10~47µF	0.8	1.0	1.20	1.30	1.50
	100µF	0.8	1.0	1.10	1.15	1.20

◆ **PART NUMBER**

□□□ / **MH7** / □□□□□ / □ / □□□ / □□ /
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

Cap(μ F)	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											4x7	1.0
0.22											4x7	2.3
0.33											4x7	3.5
0.47											4x7	5
1											4x7	10
2.2											4x7	19
3.3											4x7	24
4.7									4x7	24	5x7	29
10					4x7	29	5x7	33	5x7	36	6.3x7	44
22	4x7	34	5x7	38	5x7	44	6.3x7	51	6.3x7	60	6.3x7	60
33	5x7	42	5x7	47	6.3x7	60	6.3x7	65	6.3x7	65		
47	5x7	50	6.3x7	65	6.3x7	70	6.3x7	70				
100	6.3x7	77	6.3x7	87	6.3x7	91						