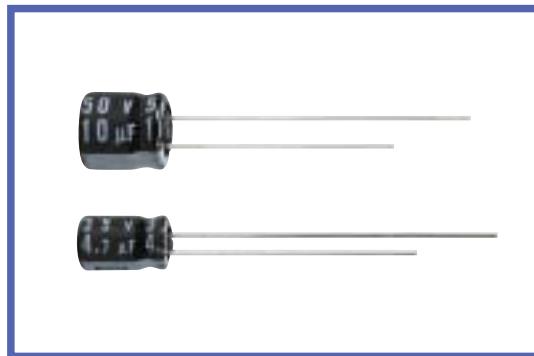


MH7 SERIES

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 $3\mu A$ 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) (tan δ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <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> </tr> </tbody> </table> (20°C, 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°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <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> </tbody> </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 border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>$Z(-25^\circ C) / Z(20^\circ C)$</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z(-40^\circ C) / Z(20^\circ C)$</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> (120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	$Z(-25^\circ C) / Z(20^\circ C)$	3	2	2	2	2	2	$Z(-40^\circ C) / Z(20^\circ C)$	6	5	4	3	3	3
Rated Voltage (V)	6.3	10	16	25	35	50																
$Z(-25^\circ C) / Z(20^\circ C)$	3	2	2	2	2	2																
$Z(-40^\circ C) / Z(20^\circ C)$	6	5	4	3	3	3																

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

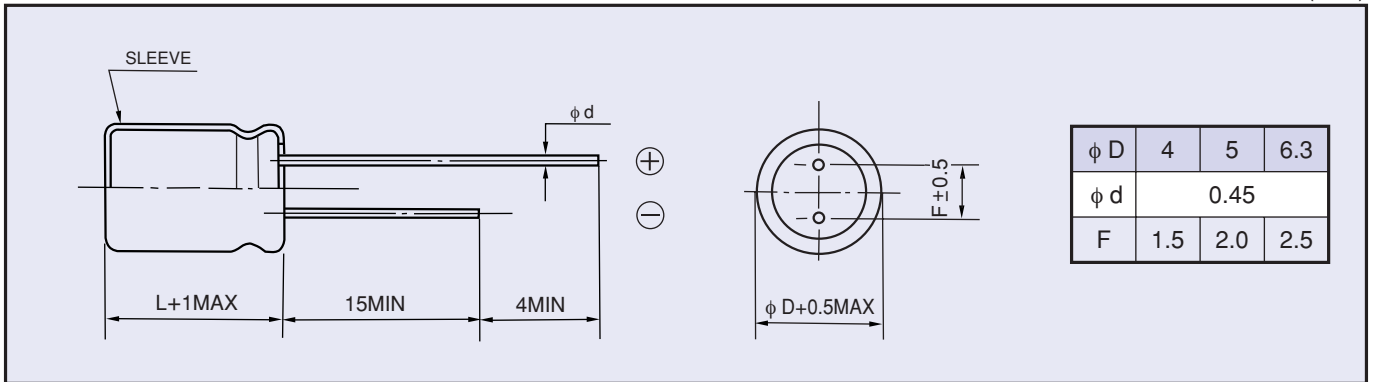
Frequency (Hz)		60(50)	120	500	1k	10k \leq
Coefficient	0.1 ~ 1 μF	0.50	1.0	1.20	1.30	1.50
	2.2 ~ 4.7 μF	0.65	1.0	1.20	1.30	1.50
	10 ~ 47 μF	0.8	1.0	1.20	1.30	1.50
	100 μF	0.8	1.0	1.10	1.15	1.20

◆ PART NUMBER

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

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

WV (V.DC) 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						