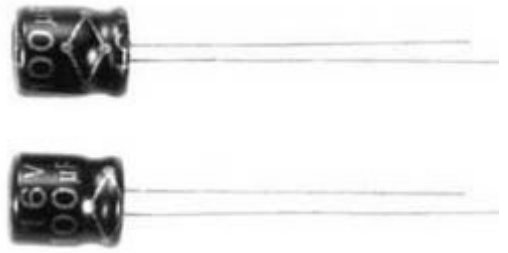


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MHR series Miniaturized 7mm 105° c

Developed short body length to 7mm, for the demand of smaller and thinner electronic equipment.

Most suitable for high-density electronic equipment, such as: automatic office machines, pocket calculators, car stereos and mini-audio sets, VCR, camera, CD-ROM, notebook, etc.



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specifications

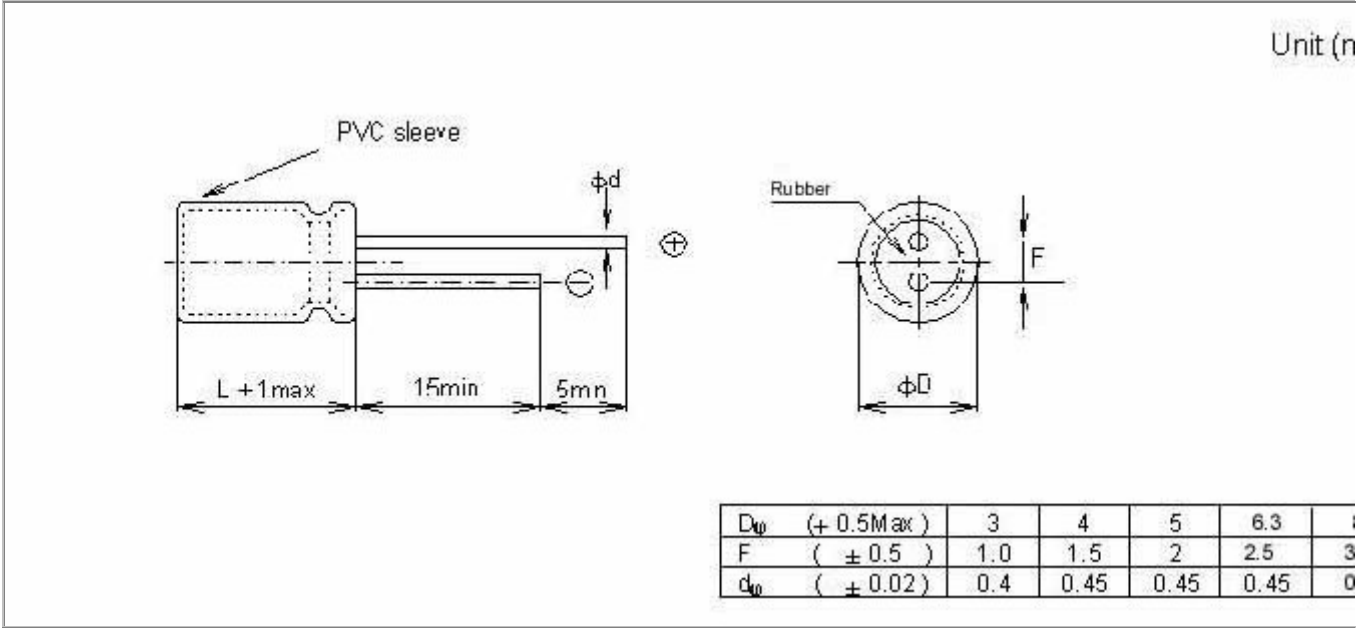
No.	Item	Performance																								
1	Operating Temperature Range	-40 to +105° c																								
2	Rated Working Voltage Range	6.3 – 63v.DC																								
3	Nominal Capacitance Range	0.1 – 470µ F																								
4	Capacitance Tolerance	± 20% (at +20° c ,120Hz)																								
5	Leakage Current	I = 0.01CV or 3(µ A) after two minutes																								
6	Dissipation Factor(tan δ) (120Hz\+20° c)	i@																								
		<table><tr><td>Working 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 max</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>	Working Voltage(V)	6.3	10	16	25	35	50	tan δ max	0.24	0.20	0.16	0.14	0.12	0.10										
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tan δ max	0.24	0.20	0.16	0.14	0.12	0.10																				
i@																										
7	Characteristics at low temperature (stability at 120 Hz)	i@																								
		<table><tr><td>Working Voltage(V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>-25° c/+20° c</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>-40° c/+20° c</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>	Working Voltage(V)	6.3	10	16	25	35	50	63	-25° c/+20° c	4	3	2	2	2	2	2	-40° c/+20° c	8	6	4	4	3	3	3
		Working Voltage(V)	6.3	10	16	25	35	50	63																	
-25° c/+20° c	4	3	2	2	2	2	2																			
-40° c/+20° c	8	6	4	4	3	3	3																			
i@																										

		i @						
8	<div>i @</div> <div>i @</div> <div>High Temperature Loading</div>	<div>After 1000hrs. application of DC rated working voltage at + 105° c, The capacitor shall meet the following limits : Post test requirements at +20°c</div> <table><tr><td>Leakage current</td><td>≤ the initial specified value</td></tr><tr><td>Capacitance change</td><td>≤ ±20% of initial measured value</td></tr><tr><td>Dissipation Factor(tan δ)</td><td>≤200% of initial specified value</td></tr></table>	Leakage current	≤ the initial specified value	Capacitance change	≤ ±20% of initial measured value	Dissipation Factor(tan δ)	≤200% of initial specified value
Leakage current	≤ the initial specified value							
Capacitance change	≤ ±20% of initial measured value							
Dissipation Factor(tan δ)	≤200% of initial specified value							
9	<div>i @</div> <div>Shelf Life</div>	<div>After storage for 500hrs. at + 105° C with no voltage applied. Post test requirements at +20° C same limits as high temperature loading.</div>						
10	<div>i @</div> <div>Solvent proof</div>	<div>This capacitor can withstand circuit-board cleaning within 5 min. dipped in Freon TE,TES, at 40° C (ultrasonic also permitted) or in the steam of these cleaners.</div>						

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MHR series Miniaturized 7mm 105° c

Diagram of Dimensions



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Case Size Table

øD x L(mm)

W.V. (SV) μ F	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.1	---	---	---	---	→	4 X 7	4 X 7
0.22	---	---	---	---	→	4 X 7	4 X 7
0.33	---	---	---	---	→	4 X 7	4 X 7
0.47	---	---	---	---	→	4 X 7	4 X 7
1.0	---	---	---	---	→	4 X 7	4 X 7
2.2	---	---	---	---	→	4 X 7	4 X 7
3.3	---	---	---	---	→	4 X 7	4 X 7
4.7	---	---	→	4 X 7	4 X 7	5 X 7	5 X 7
10	---	→	4 X 7	5 X 7	5 X 7	6.3 X 7	6.3 X 7
22	4 X 7	5 X 7	5 X 7	6.3 X 7	6.3 X 7	6.3 X 7	---
33	5 X 7	5 X 7	6.3 X 7	6.3 X 7	6.3 X 7	8 X 7	---
47	5 X 7	6.3 X 7	6.3 X 7	6.3 X 7	8 X 7	8 X 9	---
100	6.3 X 7	6.3 X 7	6.3 X 7	8 X 9	---	---	---
220	8 X 7	8 X 7	8 X 9	---	---	---	---
330	8 X 7	8 X 7	8 X 9	---	---	---	---
470	8 X 9	8 X 9	---	---	---	---	---

- All blank voltage on sleeve marking is the same voltage as $j\text{ } \rightarrow j''$ point to.

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