



Features

- For general purpose.
- Wide CV value range.
- Safely vent construction products, RH series are guaranteed 2,000 hours at 105°C.

Specifications

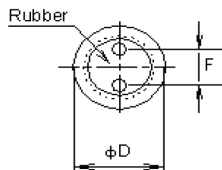
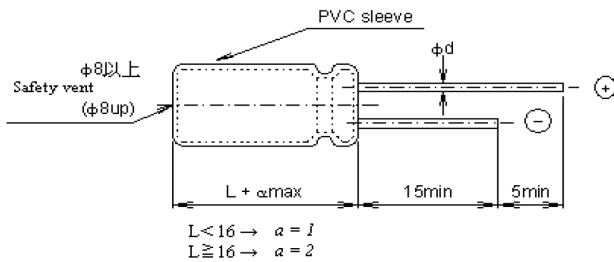
Capacitance	: 120µF
Voltage Rating	: 35V
Capacitance Tolerance	: ± 20%
Capacitor Terminals	: Radial Leaded
Diameter	: 8mm
Lead Spacing	: 3.5mm
Height	: 12mm
Operating Temperature	: -40°C to +105°C
Lifetime @ Temperature	: 1000 hours @ 105°C

Specification Table

Item	Performance																																											
Operating Temperature Range	-40°C to+105°C	-25°C to+105°C																																										
Rated Working Voltage Range	6.3V DC - 100V DC	160V DC - 450V DC																																										
Nominal Capacitance Range	0.1 - 15,000µF	0.47 - 330µF																																										
Capacitance Tolerance	±20% (at+20°C ,120Hz)																																											
Leakage Current	I≤0.01CV or 3(µA) max	I≤0.03CV + 20(µA) max																																										
	Whichever is greater after 3 minutes.	I: Leakage Current (µA) C: Rated Capacitance (µF) V: Working Voltage(V)																																										
Dissipation Factor(tanδ) (120Hz\+20°C)	<table border="1"> <thead> <tr> <th>Working Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ max.</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.1</td> <td>0.1</td> <td>0.07</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.24</td> <td>0.24</td> </tr> </tbody> </table>														Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	tanδ max.	0.22	0.19	0.16	0.14	0.12	0.1	0.1	0.07	0.15	0.15	0.15	0.20	0.24	0.24
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tanδ max.	0.22	0.19	0.16	0.14	0.12	0.1	0.1	0.07	0.15	0.15	0.15	0.20	0.24	0.24																														
Add 0.02 per 1000 µF for more than 1000µF.																																												
Maximum Permissible Ripple Current	Refer to standard products table(120Hz,+105°C) Correction factor for frequency																																											
	Freq.(Hz)		60	120	1K	10K	100K																																					
	W.V.(V.DC)																																											
	6.3~50	0.1-330	0.85	1	1.3	1.4	1.55																																					
		470-3300	0.95	1	1.15	1.2	1.25																																					
		≥4700	0.95	1	1.1	1.2	1.2																																					
63~100	0.47-33	0.75	1	1.55	1.65	1.8																																						
	47-220	0.75	1	1.4	1.6	1.65																																						
	≥330	0.8	1	1.3	1.35	1.4																																						
≥160	1-220	0.7	1	1.3	1.7	1.7																																						

Item	Performance																																													
Characteristics at low temperature (stability at 120 Hz)	<table border="1"> <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><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</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><td>2</td><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>15</td> </tr> <tr> <td>-40°C/+20°C</td> <td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>	Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	-25°C/+20°C	4	3	2	2	2	2	2	2	3	3	3	6	6	15	-40°C/+20°C	8	6	4	3	3	3	3	3						
	Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450																															
	-25°C/+20°C	4	3	2	2	2	2	2	2	3	3	3	6	6	15																															
-40°C/+20°C	8	6	4	3	3	3	3	3																																						
For capacitance value >1000µF, Add 0.5 per another 1000µF for -25°C /+25°C. Add 1.0 per another 1000µF for -40°C/+20°C.																																														
High Temperature Loading	After 2000hrs. Application of DC rated working voltage at +105°C, The capacitor shall meet the following limits: Post test requirements at +20°C.																																													
	<table border="1"> <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(tanδ)</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(tanδ)	≤200% of initial specified value																																							
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After storage for 500hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.																																														
Shelf Life	After storage for 500hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.																																													

Diagram of Dimensions



Dø (+ 0.5Max)	5	6.3	8	10	13	16	18	22
F (±0.5)	2	2.5	3.5	5	5	7.5	7.5	10
dø (±0.02)	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8

Dimensions : Millimetres

Part Number Table

Description	Part Number
Electrolytic Capacitor, 120µF, 35V, ±20%, 8mm	MCRH35V127M8X12

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