

Radial electrolytic capacitors

General purpose – high characteristic

105°C 2000

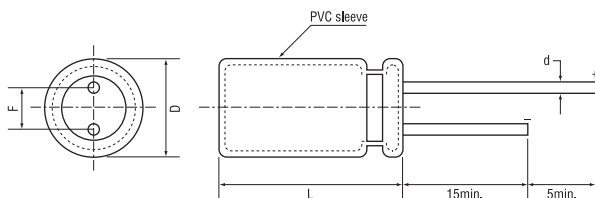
105°C Height 200 hours Wide temperature

Suitable for use in electronic complete sets of wide temperature.

Specifications

Item	Characteristics																															
Rated voltage range	6.3 to 100V DC	160 to 450V DC																														
Operating temperature range	-40 to +105°C																															
Capacitance tolerance	±20% (M) (20°C, 100/120Hz)																															
Leakage current	$i \leq 0.01C_R U_R$ or $3(\mu A)$, (20°C) Whichever is greater after 2 minutes, C_R : Nominal capacitance (μF) U_R : Rated voltage (V) at 20°C	$i \leq 0.03C_R U_R + 10(\mu A)$ After 2 minutes																														
tan δ Dissipation factor (20°C, 100/120Hz)	<table border="1"> <thead> <tr> <th>$U_R(V)$</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>tan δ</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table> <p>Add 0.02 per 1000μF for more than 1000μF</p>		$U_R(V)$	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	tan δ	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.10	0.10	0.10	0.10	0.15	0.15
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Low temperature characteristics	Impedance ratio at 100Hz or 120Hz shall not exceed the values given in the table below: <table border="1"> <thead> <tr> <th>$U_R(V)$</th> <th>6.3</th> <th>10 to 16</th> <th>25 to 100</th> <th>160</th> <th>200 to 450</th> </tr> </thead> <tbody> <tr> <td>$Z_{-40^\circ C}/Z_{+20^\circ C}$</td> <td>7</td> <td>5</td> <td>4</td> <td>5</td> <td>7</td> </tr> </tbody> </table> <p>Add 1 per 1000μF for more than 1000μF</p>		$U_R(V)$	6.3	10 to 16	25 to 100	160	200 to 450	$Z_{-40^\circ C}/Z_{+20^\circ C}$	7	5	4	5	7																		
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Shelf life	After storage for 1000 hours at 105°C, the capacitors shall meet the following requirements: <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>tan δ – Dissipation factor</td> <td>Not more than 120% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>Not more than 200% of the specified value</td> </tr> </tbody> </table>		Capacitance change	Within ±20% of the initial value	tan δ – Dissipation factor	Not more than 120% of the specified value	Leakage current	Not more than 200% of the specified value																								
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Load life	After application of rated voltage with rated ripple current for 2000h at +105°C, the capacitors shall meet the following requirements: <table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>Within ±20% of the initial value</td> </tr> <tr> <td>tan δ – Dissipation factor</td> <td>Not more than 150% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>Not more than specified value</td> </tr> </tbody> </table>		Capacitance change	Within ±20% of the initial value	tan δ – Dissipation factor	Not more than 150% of the specified value	Leakage current	Not more than specified value																								
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Others	GB/T5993-2003																															

Dimensions (mm)



D	±0.5			±1.0											
	5	6.3	8	10	13	16	18	22							
L ± 1	1	12	12	12	6	20	20	5	25	30	35	35	40	35	40
F ± 0.5	2	2.5	3.5	5			7.5			10					
d ± 0.1	0.5		0.6		0.6(0.8)		0.8								

