



NON-POLARIZED RADIAL CAPACITORS

NP series Non-Polarized □□□□□□

- □□□□□□□□□□□□□□□□ HI-FI □□
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- NP series capacitors are suitable for crossover network for HI-FI equipments and speakers, etc.
- Have excellent frequency characteristic and small deviation of capacitance.

specifications

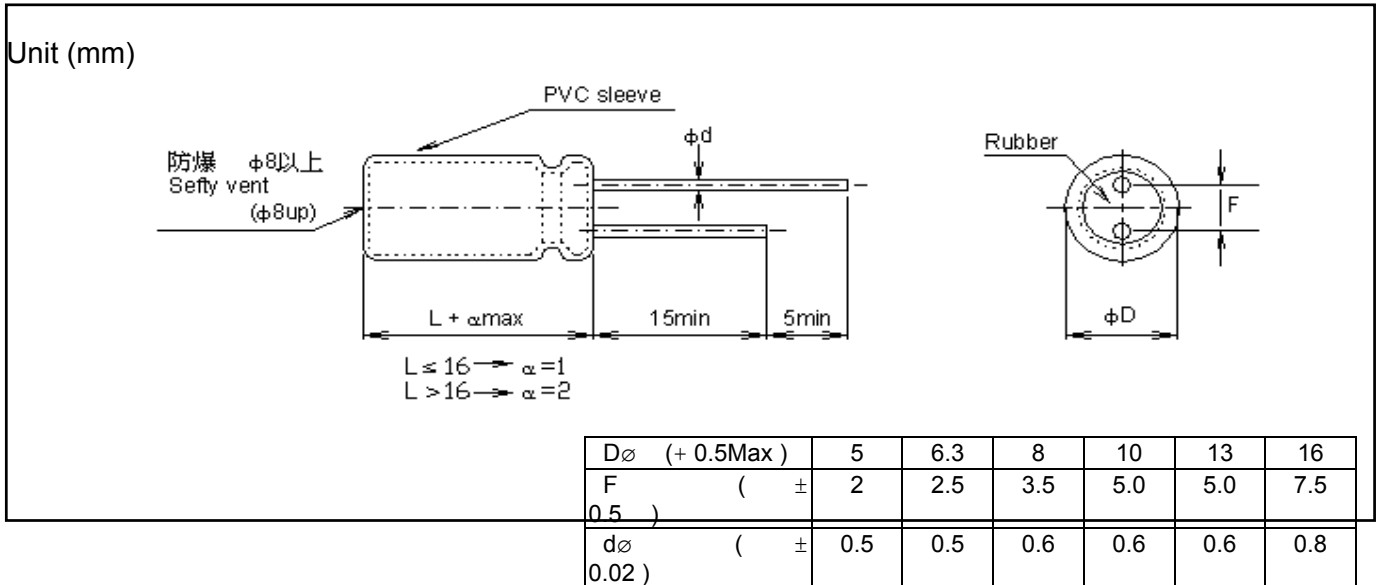
No.	Item	Performance																																				
1	□□□□□□ Operating Temperature Range	-40 to+85°C																																				
2	□□□□□□ Rated Working Voltage Range	10 – 250v.DC																																				
3	□□□□□□ Nominal Capacitance Range	0.47 – 2200μF																																				
4	□□□□□□ Capacitance Tolerance	±20% (at+20°C ,120Hz)																																				
5	□□□□ Leakage Current	I≤0.03CV or 3(μA) after five minutes																																				
6	□□□□ 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> </tr> </thead> <tbody> <tr> <td>t a n δ m a x .</td> <td>0.25</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.13</td> <td>0.10</td> <td>0.12</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>	Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	t a n δ m a x .	0.25	0.25	0.20	0.15	0.15	0.13	0.10	0.12	0.15	0.15	0.20												
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7	□□□□(at 120 Hz) Characteristics at low temperature (stability at 120 Hz)	<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> </tr> </thead> <tbody> <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>2</td> <td>2</td> <td>3</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> <td>3</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Working Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	-25°C/+20°C	4	3	2	2	2	2	2	2	2	2	3	-40°C/+20°C	8	6	4	4	3	3	3	3			
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8	□□□□□□ High Temperature Loading	<p>After 2000hrs. application of DC rated working voltage at +105°C, The capacitor shall meet the following limits: Post test requirements at +20°C.</p> <table border="1"> <tbody> <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>≤150% of initial specified value</td> </tr> </tbody> </table>	Leakage current	≤ the Initial specified value	Capacitance change	≤±20% of initial measured value	Dissipation Factor(tanδ)	≤150% of initial specified value																														
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9	□□□□□□□□ Shelf Life	<p>After storage for 500hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.</p>																																				



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Diagram of Dimensions



Case Size Table

ø DxL(mm)

W.V. (SV) μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)
0.47	5x11	5x11	5x11	5x11	5x11	5x11	5x11			
1.0	5x11	5x11	5x11	5x11	5x11	5x11	5x11			
2.2	5x11	5x11	5x11	5x11	5x11	5x11	6.3x11			
3.3	5x11	5x11	5x11	5x11	5x11	5x11	6.3x11			
4.7	5x11	5x11	5x11	5x11	5x11	6.3x11	6.3x11			
10	5x11	5x11	5x11	5x11	6.3x11	6.3x11	8x11.5			
22	5x11	5x11	6.3x11	6.3x11	8x11.5	8x11.5	10x16			
33	5x11	5x11	6.3x11	8x11.5	8x11.5	10x12.5	13x21			
47	5x11	6.3x11	6.3x11	8x11.5	10x12.5	10x16	13x21			
100	6.3x11	8x11.5	8x11.5	10x16	10x21	13x21	16x26			
220	8x11.5	10x12.5	10x16	13x21	13x26	16x26				
330	10x16	10x16	13x21	13x21	16x26					
470	10x16	10x20	13x21	13x26						
1000	13x20	13x26								
2200										

Permissible Ripple Current

Max ripple current: mA (rms) (at

85°C, 120Hz)

WW (SV) μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)
0.47	10	10	10	10	10	13	15			
1.0	15	15	15	15	15	19	19			
2.2	20	20	20	20	20	25	25			
3.3	30	30	30	30	30	30	35			
4.7	30	30	30	30	30	35	40			
10	40	40	40	40	45	55	70			
22	50	55	65	70	80	90	135			
33	65	70	80	100	105	135	220			
47	75	95	95	120	140	180	240			
100	125	160	160	230	265	320	425			
220	215	275	305	410	480	575				
330	345	375	450	505	650					

470	410	485	540	655						
1,000	720	855								
2,200										