



NP series Non-Polarized



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

specifications

No.	Item	Performance																																				
1	Operating Temperature Range	- 40 to +105° c																																				
2	Rated Working Voltage Range	10 - 250v.DC																																				
3	Nominal Capacitance Range	0.47 - 2200µ F																																				
4	Capacitance Tolerance	± 20%(at +20° c , 120Hz)																																				
5	Leakage Current	I ≤ 0.03CV or 3(µA) after five minutes																																				
6	Dissipation Factor (tan δ) (120Hz \ +20° c)	<table border="1"> <thead> <tr> <th>Working Voltage</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>tan δ max</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	6.3	10	16	25	35	50	63	100	160	200	250	tan δ max	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	Characteristics at low temperature (stability at 120 Hz)	<table border="1"> <thead> <tr> <th>Working Voltage</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	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 (tan δ)</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 (tan δ)	≤ 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>																																				

