



NPH SERIES

Non-Polarized Radial 105°C 2000HR 無極性高溫品 105°C

Features

- NP Series for crossover networks of high-pitched, mean and low-pitched sounds in high-fidelity sound systems, have excellent frequency characteristics and small deviation of capacitance.

Specifications

Items	Performance Characteristics																											
Operating Temperature Range	-40 to +105°C																											
Rated Working Voltage Range	10 to 250V DC																											
Nominal Capacitance Range	0.47 to 2200 μ F																											
Capacitance Tolerance	$\pm 20^\circ\text{C}$ (120Hz, +20°C)																											
Leakage Current	$1 \leq 0.03CV$ or $0.3(\mu\text{A})$ after 3 minutes application of rated working voltage at +20°C																											
Dissipation Factor ($\tan \delta$) (120Hz, +20°C)	<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> </tr> <tr> <td>$\tan \delta$ (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> </tr> </table>	Working voltage (v)	6.3	10	16	25	35	50	63	100	$\tan \delta$ (max)	0.25	0.25	0.20	0.15	0.15	0.13	0.10	0.12									
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Characteristics at Low Temperature	Impedance ratio max. at 120 Hz																											
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High Temperature Loading	Test conditions Duration : 2000 hours Ambient temperature : +105°C Applied Voltage : Rated DC working voltage to each polarity for 1000 hours																											
	Post test requirements at +20°C Leakage current : \leq initial specified value Capacitance change : $\leq +20\%$ of initial measured value $\tan \delta$: $\leq 150\%$ of initial specified value																											
Shelf Life	Test conditions Duration : 1000 hours Ambient temperature : +105°C Applied voltage : (None)																											
	Post test requirements at +20°C Same limits for high temperature loading.																											
Others	Satisfies characteristic W of JIS C 5141-1982																											

Multiplier for Ripple Current vs. Frequency

CAP (μ F)\Hz	50(60)	120	400	1K	10K	50K-100K
CAP \leq 10	0.8	1	1.30	1.45	1.65	1.70
10<CAP \leq 100	0.8	1	1.23	1.36	1.48	1.53
100<CAP \leq 1000	0.8	1.1	1.16	1.25	1.35	1.38

Multiplier for Ripple Current vs. Temperature

Temperature°C	45	60	70	85	95	105
Multiplier	2.10	1.90	1.65	1.40	1.25	1.00

