



NPG SERIES

Non-Polarized Radial 85°C 2000HR

無極性標準品 85°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 +85°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
	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										
	<table border="1"> <tr> <td>Working voltage (v)</td> <td>160</td> <td>200</td> <td>250</td> </tr> <tr> <td>$\tan \delta$ (max)</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </table>	Working voltage (v)	160	200	250	$\tan \delta$ (max)	0.15	0.15	0.20										
Working voltage (v)	160	200	250																
$\tan \delta$ (max)	0.15	0.15	0.20																
Characteristics at Low Temperature	Impedance ratio max. at 120 Hz																		
	Working voltage (v)	6.3	10	16	25	35	50	63	100										
	-25°C/+20°C	4	3	2	2	2	2	2	2										
	-40°C/+20°C	8	6	4	4	3	3	3	3										
High Temperature Loading	Test conditions																		
	Duration : 2000 hours																		
	Ambient temperature : +85°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 : +85°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	1.30	1.65	1.70
10<CAP \leq 100	0.8	1	1.23	1.23	1.48	1.53
100<CAP \leq 1000	0.8	1	1.18	1.16	1.35	1.38
1000<CAP	0.8	1	1.11	1.11	1.25	1.28

Multiplier for Ripple Current vs. Temperature

Temperature°C	45	60	70	85
Multiplier	1.8	1.50	1.30	1.0

