

SNS SERIES(7mmL高, Nonpolar 無極性, +85°C)

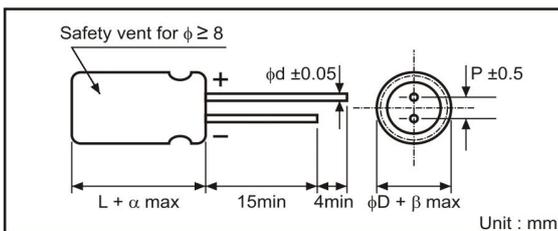
●NQ Series for crossover networks of high-pitched, mean and low-pitched sounds in high-fidelity sound systems, have excellent frequency character and small deviation of capacitors.



◆ SPECIFICATIONS

Item	Performance Characteristics																						
Operating temperature range	-40 to + 85°C																						
Rated Working Voltage Range	6.3 to 50V																						
Nominal Capacitance Range	0.1to 220μF																						
Capacitance Tolerance	±20(120Hz, +20°C)																						
Leakage Current	I ≤ 0.05CV or 10(μA) after 5 minutes application of rated working voltage at +20°C																						
Dissipation Factor tan δ(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> </tr> </thead> <tbody> <tr> <td>tan δ(max)</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table>		Working Voltage(V)	6.3	10	16	25	35	50	tan δ(max)	0.24	0.20	0.16	0.16	0.14	0.12							
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Low Temperature Characteristics	Impedance ratio max at 120Hz <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> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>		Working Voltage(V)	6.3	10	16	25	35	50	Z-25°C/Z+20°C	4	3	2	2	2	2	Z-40°C/Z+20°C	8	6	4	4	3	3
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High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : + 85°C Applied voltage : Rated DC working voltage to each polarity every 250 hrs	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																					
Shelf Life	Test conditions Duration : 500 hours Ambient temp : + 85°C Applied vlotage:(None)	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																					

◆ CASE SIZE TABLE



φD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.45
α	1.5			
β	0.5			

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

freq. (Hz) cap(μf)	50	120	300	1k	10k~
≤47	0.75	1.00	1.35	1.57	2.00
56~220	0.80	1.00	1.23	1.34	1.50

(2) Temperature Coefficient

Temperatu	~55	65	70	85
FACTOR	1.65	1.50	1.30	1.00

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◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7					4*7	18	5*7	21
10			4*7	24	5*7	30	6.3*7	35
22			5*7	40	6.3*7	51	6.3*7	53
33	5*7	42	6.3*7	56	6.3*7	63	8*7	73
47	6.3*7	58	6.3*7	67	6.3*7	75	8*7	87
100	8*7	95	8*7	110	8*7	125		
220	8*7	140						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)

Voltage	35V		50V					
Cap(μF)	Size	Ripple	Size	Ripple				
0.1			4*7	1.0				
0.22			4*7	2.3				
0.33			4*7	3.5				
0.47			4*7	5.0				
1			4*7	10				
2.2			4*7	14				
3.3	4*7	16	5*7	20				
4.7	5*7	22	6.3*7	27				
10	6.3*7	37	6.3*7	44				
22	8*7	62	8*7	65				
33	8*7	76						

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size ΦD X L (mm)