

FEATURES

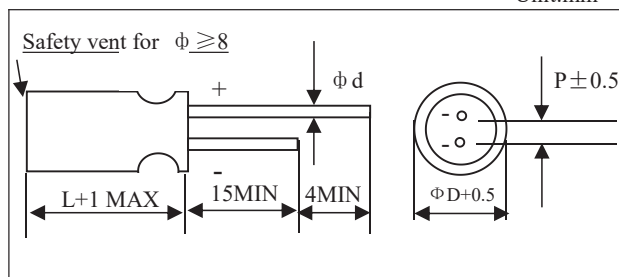
1.Ns Series for crossover networks for high-pitched, mean and low-pitched sounds in high-fidelity sound systems, have excellent frequency characteristics and small deviation of capacitance.

SPECIFICATIONS

Item	Performance Characteristics																																				
Operating Temperature Range	-40 to +105℃																																				
Rated Working voltage Range	6.3 to 50V																																				
Nominal Capacitance Range	0.1 to 220(uF)																																				
Capacitance Tolerance	± 20%（120Hz, +20℃）																																				
Leakage Current	I≤0.05CV or 10(uA) after 2 minutes application of rated working voltage at +20℃																																				
Dissipation Factor tan δ (120Hz+20℃)	<table><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></tr><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></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><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></tr><tr><td>Z-25℃/Z+20℃</td><td>4</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40℃/Z+20℃</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td></tr></table>							Working voltage(V)	6.3	10	16	25	35	50	Z-25℃/Z+20℃	4	2	2	2	2	2	Z-40℃/Z+20℃	8	6	4	4	3	3									
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Multiplier for Ripple Current vs. Frequency	<table><tr><td colspan="2">CAP(uF)\Hz</td><td>60(50)</td><td>120</td><td>400</td><td>1K</td><td>10K</td><td>50K-100K</td></tr><tr><td rowspan="3">Multiplier</td><td>CAP≤10</td><td>0.8</td><td>1</td><td>1.30</td><td>1.45</td><td>1.65</td><td>1.70</td></tr><tr><td>10<CAP≤100</td><td>0.8</td><td>1</td><td>1.23</td><td>1.36</td><td>1.48</td><td>1.53</td></tr><tr><td>100<CAP≤1000</td><td>0.8</td><td>1</td><td>1.16</td><td>1.25</td><td>1.35</td><td>1.38</td></tr></table>							CAP(uF)\Hz		60(50)	120	400	1K	10K	50K-100K	Multiplier	CAP≤10	0.8	1	1.30	1.45	1.65	1.70	10<CAP≤100	0.8	1	1.23	1.36	1.48	1.53	100<CAP≤1000	0.8	1	1.16	1.25	1.35	1.38
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Multiplier for Ripple Current vs. Temperature	<table><tr><td>Temperature℃</td><td>45</td><td>60</td><td>70</td><td>85</td><td>105</td></tr><tr><td>Multiplier</td><td>2. 10</td><td>1. 90</td><td>1. 65</td><td>1. 4</td><td>1. 00</td></tr></table>							Temperature℃	45	60	70	85	105	Multiplier	2. 10	1. 90	1. 65	1. 4	1. 00																		
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High temperature Loading	Test conditions Duration : 2000 hours Ambient temperature : +105℃ Applied voltage : Rated DC working voltage to each polarity very 250 hour Post test requirements at +20℃ Leakage current : ≤ Initial specified value Capacitance change : ≤ ± 20% of initial measured value tan δ : ≤ 200% of initial specified value																																				
Shelf life	Test conditions Duration : 1000 hours Ambient temperature : +105℃ Applied voltage : (None) Post test requirements at +20℃ Same limits for high temperature loading																																				
Others	JIS C-5141 JIS C-5102																																				

CASE SIZE TABLE

Unit:mm



D φ	4	5	6.3	8
P	1.5	2.0	2.5	3.5
d φ (±0.05)	0.45	0.45	0.45	0.5

DIMENSIONS

ΦD×L(mm)

WV(SV) Cap.(uF) Code		6.3V(8)		10V(13)		16V(20)	
		0J		1A		1C	
4.7	475					4×7	18
10	106			4×7	22	5×7	28
22	226			5×7	36	6.3×7	45
33	336	5×7	40	6.3×7	50	6.3×7	60
47	476	6.3×7	55	6.3×7	65	6.3×7	73
100	107	8×7(9)	90(100)	8×7(9)	105(115)	8×7(9)	120(130)
220	227	8×7(9)	135(150)			Case Size	Allowable ripple

Allowable Ripple (mA rms) at 105℃ 120Hz

ΦD×L(mm)

WV(SV) Cap.(uF) Code		25V(32)		35V(44)		50V(63)	
		1E		1V		1H	
0.1	104					4×7	1.0
0.22	224					4×7	2.3
0.33	334					4×7	3.5
0.47	474					4×7	5.0
1	105					4×7	10
2.2	225					5×7	12
3.3	335			4×7	16	6.3×7	20
4.7	475	5×7	20	5×7	20	6.3×7	25
10	106	6.3×7	32	6.3×7	35	8×7	42
22	226	6.3×7	50	8×7	60	8×7	63
33	336	8×7	70	8×7	75		
47	476	8×7	80			Case Size	Allowable ripple

Allowable Ripple (mA rms) at 105℃ 120Hz