

SNH SERIES(+105℃, nonpolar無極性)

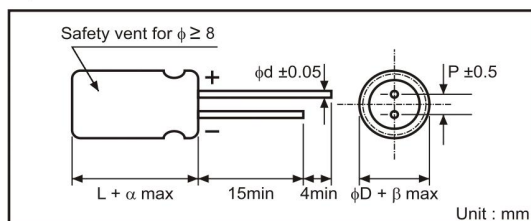
- Nonpolar, high temperature
- Suit for use in polarity and change circuits



◆ SPECIFICATIONS

Item	Performance Characteristics																																			
Operating temperature range	-40 to +105℃																																			
Rated Working Voltage Range	6.3 to 100V																																			
Nominal Capacitance Range	0.47to 1000μF																																			
Capacitance Tolerance	±20(120Hz,+20℃)																																			
Leakage Current	I≤ 0.03CV or 3(μA) after 5 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><td>63</td><td>100</td></tr><tr><td>tan δ(max)</td><td>0.26</td><td>0.24</td><td>0.22</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>									Working Voltage(V)	6.3	10	16	25	35	50	63	100	tan δ(max)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10									
Working Voltage(V)	6.3	10	16	25	35	50	63	100																												
tan δ(max)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10																												
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><td>63</td><td>100</td></tr><tr><td>Z-25℃/Z+20℃</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></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><td>3</td><td>3</td></tr></table>									Working Voltage(V)	6.3	10	16	25	35	50	63	100	Z-25℃/Z+20℃	4	3	2	2	2	2	2	2	Z-40℃/Z+20℃	8	6	4	4	3	3	3	3
Working Voltage(V)	6.3	10	16	25	35	50	63	100																												
Z-25℃/Z+20℃	4	3	2	2	2	2	2	2																												
Z-40℃/Z+20℃	8	6	4	4	3	3	3	3																												
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +105℃ Applied voltage : Rated DC working voltage to each poliarity every 250 hrs Post test requirements at +20℃ 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 : +105℃ Applied vlotage:(None) Post test requirements at +20℃ Leakage current : ≤Initial specified value Cap . Change : ≤ ±20%of Initial measured value tan δ : ≤ 200% of Initial specified value																																			

◆ CASE SIZE TABLE



ΦD	5	6.3	8	10	13	16
P	2.0	2.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8
α	(L < 20) 1.5		(L ≥ 20) 2.0			
β	(D < 20) 0.5		(D ≥ 20) 1.0			

◆ 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
56~470	0.80	1.00	1.23	1.34	1.50
≥ 560	0.85	1.00	1.10	1.13	1.15

(2) Temperature Coefficient

Temperature	~55	65	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1

SNH SERIES(+105℃, nonpolar 無極性)

◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47								
1								
2.2								
3.3								
4.7							5*11	23
10					5*11	30	5*11	34
22			5*11	42	6.3*11	51	6.3*11	55
33	5*11	46	6.3*11	57	6.3*11	63	8*12	79
47	6.3*11	61	6.3*11	67	8*12	89	10*12.5	100
100	8*12	104	10*12.5	125	10*12.5	139	10*16	164
220	10*12.5	168	10*16	204	10*20	279	12.5*25	336
330	10*16	229	10*20	275	12.5*20	346	12.5*25	414
470	10*20	300	12.5*20	371	12.5*25	460	16*25	543
1000	12.5*25	550	10*20	620	16*25	746	16*30	871
			16*25	668				

Maximum Allowable Ripple Current (mA rms) at 105℃ 120Hz

Case Size ΦD X L (mm)

Voltage	35V		50V		63V		100V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47			5*11	8			5*11	10
0.68			5*11	10				
1			5*11	12			5*11	15
1.5			5*11	14				
2.2			5*11	18			6.3*11	22
3.3			5*11	22	6.3*11	26	8*12	32
4.7	5*11	25	6.3*11	29	6.3*11	31	8*12	39
10	6.3*11	40	8*12	51	8*12	53	10*12.5	64
22	8*12	68	10*12.5	82	10*16	96	10*20	114
33	10*12.5	89	10*16	107	10*20	129	12.5*20	164
47	10*12.5	111	10*20	146	10*20	157	12.5*25	200
68			12.5*20	198				
100	10*20	196	12.5*25	264	12.5*25	275	16*25	304
220	12.5*25	364	12.5*25	480	16*30	486		
330	16*25	493	16*25	443				
470	16*25	586	16*30	593				

Maximum Allowable Ripple Current (mA rms) at 105℃ 120Hz

Case Size ΦD X L (mm)