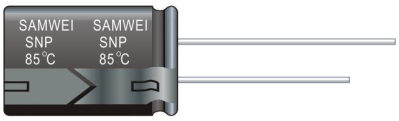
SNP SERIES(+85℃，nonpolar無極性)



●Standard non-polarized series for entertainment electronics

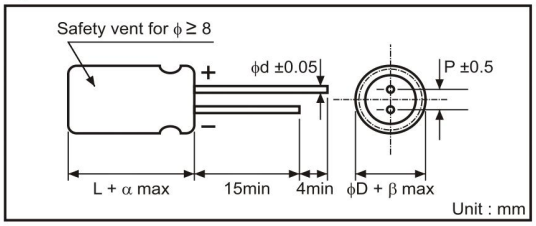
◆ SPECIFICATIONS

Item	Performance Characteristics
Operating temperature range	-40 to + 85℃
Rated Working Voltage Range	6.3 to 100V
Nominal Capacitance Range	0.47to 6800μF
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℃)	
Low Temperature Characteristics	Impedance ratio max at 120Hz
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : + 85℃ 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 : + 85℃ 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

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
Z-25℃/Z+20℃	4	3	2	2	2	2	2	2
Z-40℃/Z+20℃	10	8	6	5	4	4	3	3

◆ CASE SIZE TABLE



ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	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) Tmperature Coefficient

Tmperatu	~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
0.47								
1								
2.2								
3.3								
4.7							5*11	26
10					5*11	42	5*11	42
22			5*11	57	5*11	57	6.3*11	65
33	5*11	64	5*11	64	5*11	70	6.3*11	80
47	5*11	76	5*11	76	6.3*11	95	6.3*11	95
100	6.3*11	125	6.3*11	125	8*12	160	8*12	160
220	8*12	215	8*12	215	10*12.5	275	10*16	305
330	8*12	265	10*16	345	10*16	375	12.5*20	450
470	10*12	370	10*16	410	10*20	485	12.5*20	540
1000	10*20	650	10*20	620	12.5*25	855	16*25	950
			12.5*20	720				
2200	12.5*25	1160	16*25	1280	16*30	1510	18*35	1620
3300	16*25	1570	16*30	1690	18*35	1980		
4700	16*30	2020	18*35	2160				
6800	18*35	2600						

Maximum Allowable Ripple Current (mA rms) at 85℃ 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	11			5*11	14
0.68			5*11	13				
1			5*11	17	5*11	18	5*11	21
1.5			5*11	20				
2.2			5*11	25			6.3*11	34
3.3			5*11	27	5*11	28	6.3*11	39
4.7	5*11	34	5*11	34	6.3*11	34	6.3*11	47
10	5*11	43	6.3*11	52	6.3*11	57	8*12	71
22	6.3*11	73	8*12	89	8*12	95	10*16	135
33	8*12	100	8*12	105	10*12.5	135	12.5*20	220
47	8*12	120	8*12	130	10*16	180	12.5*20	240
			10*12.5	150				
68			10*16	198				
100	10*12.5	187	10*20	265	12.5*20	320	16*25	425
	10*16	230						
220	12.5*20	410	12.5*25	480	16*25	574	18*35	720
330	12.5*20	505	16*25	650	16*30	655		
470	12.5*25	655	16*30	835	18*35	965		
1000	16*30	1140						
2200			22*40	1800				

Maximum Allowable Ripple Current (mA rms) at 85℃ 120Hz **Case Size ΦD X L (mm)**