

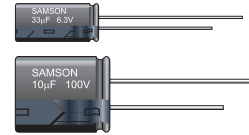
SAMSON

SNH Series

+105°C, Nonpolar(無極性)

FEATURES

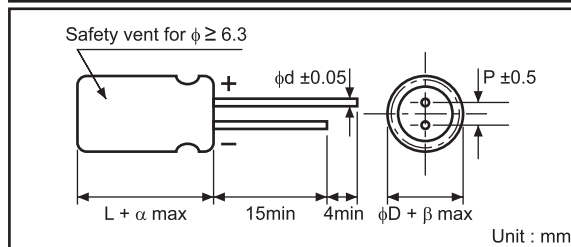
1. Nonpolar, high temperature
2. Suit for use in polarity and change circuits



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Working Voltage Range	6.3 to 100V								
Nominal Capacitance Range	0.47 to 1000µF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	I ≤ 0.03CV or 3(µA) whichever is greater measured after 5 minutes application of rated working voltage at +20°C								
Dissipation Factor tan δ (120Hz, +20°C)	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								
	Working Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3	3	3
High Temperature Loading	Test conditions				Post test requirements at +20°C				
	Duration : 1000 hours				Leakage current : ≤ Initial specified value				
	Ambient temp. : +105°C				Cap. change : within ±20% of initial measured value				
	Applied voltage : Rated DC working voltage to each polarity every 250 hours				tan δ : ≤ 200% of initial specified value				
Shelf Life	Test conditions				Post test requirements at +20°C				
	Duration : 500 hours				Leakage current : ≤ Initial specified value				
	Ambient temp. : +105°C				Cap. change : within ±20% of initial measured value				
	Applied voltage : (None)				tan δ : ≤ 200% of initial specified value				
Others	JIS C - 5141 JIS C - 5102								

CASE SIZE TABLE



φD	5	6.3	8	10	12.5	16			
P	2.0	2.5	3.5	5.0	5.0	7.5			
φd	0.5			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

Temperature Coefficient						Frequency Coefficient							
Temperature(°C)	~ 55	60	70	85	105	Cap(µF)	Freq.(Hz)	50	120	300	1K	10K ~	
Factor	2.23	2.17	2.00	1.75	1.00			≤ 47	0.75	1.00	1.35	1.57	2.00
								47 ~ 220	0.80	1.00	1.23	1.34	1.50
								≥ 330	0.85	1.00	1.10	1.13	1.15

SNH Series

+105°C, Nonpolar(無極性)

DIMENSIONS									
Voltage (Code)		6.3V		10V		16V		25V	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.47	474								
1	105								
2.2	225								
3.3	335								
4.7	475							5 x 11	23
10	106					5 x 11	30	5 x 11	34
22	226			5 x 11	42	6.3 x 11	51	6.3 x 11	55
33	336	5 x 11	46	6.3 x 11	57	6.3 x 11	63	8 x 12	79
47	476	6.3 x 11	61	6.3 x 11	67	8 x 12	89	10 x 12.5	100
100	107	8 x 12	104	10 x 12.5	125	10 x 12.5	139	10 x 16	164
220	227	10 x 12.5	168	10 x 16	204	10 x 20	279	12.5 x 25	336
330	337	10 x 16	229	10 x 20	275	12.5 x 20	346	12.5 x 25	414
470	477	10 x 20	300	12.5 x 20	371	12.5 x 25	460	16 x 25	543
1000	108	12.5 x 25	550	16 x 25	668	16 x 25	746	16 x 30	871

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

Case Size φD x L(mm)

Voltage (Code)		35V		50V		63V		100V	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.47	474			5 x 11	8			5 x 11	10
1	105			5 x 11	12			5 x 11	15
2.2	225			5 x 11	18			6.3 x 11	22
3.3	335			5 x 11	22	6.3 x 11	26	8 x 12	32
4.7	475	5 x 11	25	6.3 x 11	29	6.3 x 11	31	8 x 12	39
10	106	6.3 x 11	40	8 x 12	51	8 x 12	53	10 x 12.5	64
22	226	8 x 12	68	10 x 12.5	82	10 x 16	96	10 x 20	114
33	336	10 x 12.5	89	10 x 16	107	10 x 20	129	12.5 x 20	164
47	476	10 x 12.5	111	10 x 20	146	10 x 20	157	12.5 x 25	200
100	107	10 x 20	196	12.5 x 25	264	12.5 x 25	275	16 x 25	304
220	227	12.5 x 25	364	16 x 25	443	16 x 30	486		
330	337	16 x 25	493	16 x 30	593				
470	477	16 x 25	586						
1000	108								

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

Case Size φD x L(mm)