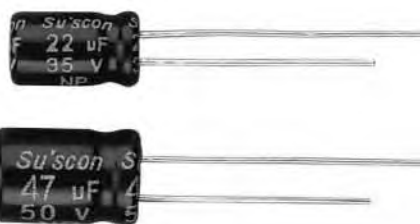


HN series

- Non-polarity high-temperature resistance product.
- Suitable for DC two-way return circuit.
- RoHS Compliance.
- 無極性、耐高溫產品。
- 適用於直流雙向迴路。



SPECIFICATIONS

Items 項目	Characteristics 特 性									
Capacitance Tolerance 靜電容量誤差	± 20% (120Hz, 20°C)									
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C									
Rated Voltage Range 工作電壓範圍	6.3 ~ 160V									
Leakage Current 洩漏電流	I ≤ 0.03CV or 3(μA) (After 5 minutes application of DC working voltage, at 20°C)									
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C									
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160
	tan δ (Max)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10	0.15
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (20°C · 120Hz)									
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.									
	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160
	Z (-25°C) / Z (20°C)	4	3	2	2	2	2	2	2	3
	Z (-40°C) / Z (20°C)	10	8	6	5	4	4	3	3	4
Load Life 負荷壽命	2,000hours, with the polarity inverted every 250hours at 105°C									
	Capacitance Change	Within ±20% of Initial Value								
	tan δ	200% or less of Initial Specified Value								
	Leakage Current	Initial Specified Value or less								
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105°C · After Test: UR to be applied for 30 minutes, 24 to 48hours before measurement.									
	Capacitance Change	Within ±20% of Initial Value								
	tan δ	200% or less of Initial Specified Value								
	Leakage Current	Initial Specified Value or less								
Standards 參照標準	JIS C 5101-4-1 and JIS C 5101-2									

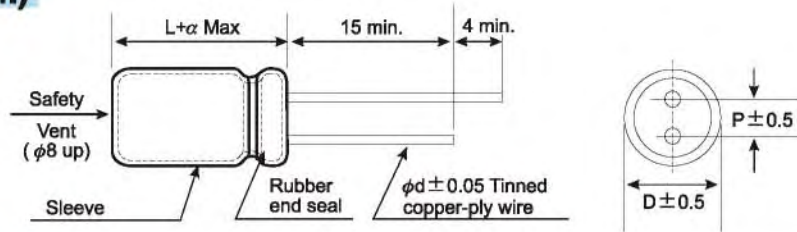
PERMISSIBLE RIPPLE CURRENT

Frequency Coefficient

Capacitance (μF)	Frequency (Hz)			
	50	120	1K	≥ 10K
< 100	0.80	1.00	1.30	1.50
≥ 100	0.80	1.00	1.15	1.20

HN series

DIMENSIONS (mm)



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 < 16) 1.0 (L ≥ 16) 2.0
----------	------------------------------

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105°C, 120Hz.

Cap (μF)	WV(V) (Code)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
10						5x11	30	5x11	36
22				5x11	42	6.3x11	52	6.3x11	55
33		5x11	48	6.3x11	58	6.3x11	66	8x12	75
47		6.3x11	65	6.3x11	70	8x12	90	10x13	96
100		8x12	105	10x13	125	10x13	140	10x16	158
220		10x13	168	10x16	205	10x20	285	13x21	306
330		10x16	230	10x20	278	13x21	346	13x25	415
470		10x20	300	13x21	370	13x25	460	16x26	545
1000		13x25	550	16x26	665	16x26	750	16x32	870

Cap (μF)	WV(V) (Code)	35 (1V)		50 (1H)		63 (1J)		100 (2A)		160 (2C)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1~0.47				5x11	8	5x11	5	5x11	10	5x11	4
1				5x11	12	5x11	15	5x11	15	6.3x11	12
2.2				5x11	18	5x11	22	6.3x11	24	6.3x11	17
3.3				5x11	22	6.3x11	26	8x12	32	8x12	25
4.7		5x11	25	6.3x11	30	6.3x11	32	8x12	40	8x12	30
5.6		5x11	28	6.3x11	35	6.3x11	40	8x12	48	8x14	35
6.8		5x11	33	6.3x11	40	8x12	45	8x14	52	8x16	41
10		6.3x11	40	8x12	50	8x12	55	10x13	65	10x16	55
22		8x12	68	10x13	82	10x16	90	10x20	120	13x21	106
33		10x13	90	10x16	100	10x20	128	13x21	168	13x21	130
47		10x13	110	10x20	146	10x20	156	13x21	200	13x25	167
56		10x16	140	13x21	195	13x21	218	13x21	250	16x26	206
100		10x20	196	13x25	260	13x25	275	13x25	295	16x32	300
220		13x25	365	16x26	445	16x32	486				
330		16x26	492	16x32	595						
470		16x32	595								

※ 13mm may be replaced by 12.5mm upon customer's request.