

GNH Non-polar Radial Leads, 105°C Series

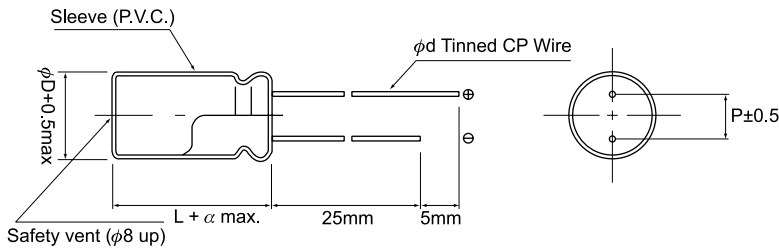
- Exhibits reliable performance in circuit where polarity reversible.
- Working temperature range up to 105°C.
- Life guaranteed 2,000 hours/105°C.



• Specifications

Item	Performance Characteristics								
Operating Temperature range	-40 + 105°C								
Rated Voltage	6.3V ~ 100V								
Capacitance Range	0.1 ~ 4,700 μF								
Capacitance Tolerance	±20% (120Hz, 20°C)								
Leakage Current	I ≤ 0.03CV or 3 μA, whichever is greater after 5 minutes application of rated voltage.								
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100
	Tan δ (max.)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10
Temperature Characteristics (120Hz)	For capacitance of more than 1,000μF, add 0.02 for every increase of 1,000μF								
	Impedance Ratio / Stability at Low Temperature								
	Rated 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
Load Life	After 2,000 hours application of WV at 105°C with the polarity inverted every 250 hours, capacitor shall meet the characteristics requirements mentioned below.								
	Capacitance change	Within ±20% of initial value							
	Tan δ	200% or less of initial specified value							
Shelf Life	At 105°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life.								
	Leakage current	Initial specified value or less							

• Dimension (mm)



Dφ	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		0.6		0.8		
α	1.0			1.5			

• Standard Products Table

WV(SV) Cap (μF)	Dφ x L (mm)															
	6.3 (10)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (75)		100 (125)	
0.1~0.47											5 x 11	7			5 x 11	8
1											5 x 11	10			5 x 11	12
2.2											5 x 11	15			6.3 x 11	20
3.3											5 x 11	18	5 x 11	20	6.3 x 11	25
4.7									5 x 11	21	5 x 11	22	6.3 x 11	24	6.3 x 11	30
10					5 x 11	27	5 x 11	27	5 x 11	30	6.3 x 11	37	6.3 x 11	40	8 x 11	50
22			5 x 11	37	5 x 11	40	6.3 x 11	46	6.3 x 11	51	8 x 11	63	8 x 11	68	10 x 16	97
33	5 x 11	45	5 x 11	45	5 x 11	49	6.3 x 11	56	8 x 11	72	8 x 11	77	10 x 12	98	13 x 20	140
47	5 x 11	54	5 x 11	54	6.3 x 11	67	6.3 x 11	67	8 x 11	86	10 x 12	105	10 x 16	130	13 x 20	170
100	6.3 x 11	90	6.3 x 11	90	8 x 11	110	8 x 11	110	10 x 16	160	10 x 20	190	13 x 20	225	16 x 25	300
220	8 x 11	150	8 x 11	150	10 x 12	195	10 x 16	215	13 x 20	290	13 x 25	340	16 x 25	405	18 x 36	510
330	8 x 11	185	10 x 16	240	10 x 16	265	13 x 20	320	13 x 20	350	16 x 25	460	16 x 32	535		
470	10 x 12	260	10 x 16	290	10 x 20	345	13 x 20	380	13 x 25	465	16 x 32	590	18 x 36	680		
1000	10 x 20	460	13 x 20	510	13 x 25	605	16 x 25	670	16 x 32	805						
2200	13 x 25	820	16 x 25	910	16 x 32	1070	18 x 36	1140								
3300	16 x 25	1110	16 x 32	1200	18 x 36	1400										
4700	16 x 32	1430	18 x 36	1520												

Ripple current (mA) at 105°C 120Hz