

GNR Non-polar Radial Leads, 85°C Series

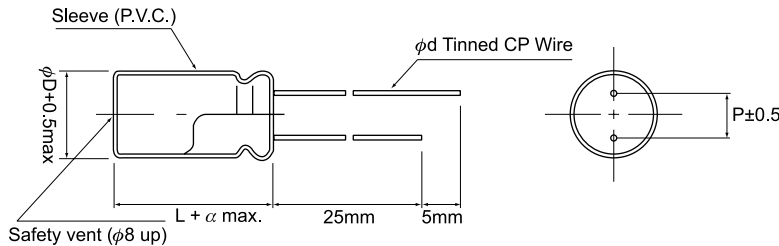
- Exhibits reliable performance in circuit where polarity reversible.
- Life guaranteed 2,000 hours/85°C.



• Specifications

Item	Performance Characteristics								
Operating Temperature range	-40 + 85°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.)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10
	For capacitance of more than 1,000μF, add 0.02 for every increase of 1,000μF								
Temperature Characteristics (120Hz)	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
	Z (-40°C) / Z (20°C)	10	8	6	5	4	4	3	3
Load Life	After 2,000 hours application of WV at 85°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							
	Leakage current	Initial specified value or less							
Shelf Life	At 85°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life.								

• 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	11			5 x 11	14
1											5 x 11	17			5 x 11	21
2.2											5 x 11	25			6.3 x 11	34
3.3											5 x 11	27	5 x 11	28	6.3 x 11	39
4.7									5 x 11	34	5 x 11	34	6.3 x 11	34	6.3 x 11	47
10					5 x 11	42	5 x 11	42	5 x 11	43	6.3 x 11	52	6.3 x 11	57	8 x 11	71
22			5 x 11	57	5 x 11	57	6.3 x 11	65	6.3 x 11	73	8 x 11	89	8 x 11	95	10 x 16	135
33	5 x 11	64	5 x 11	64	5 x 11	70	6.3 x 11	80	8 x 11	100	8 x 11	105	10 x 12	135	13 x 20	220
47	5 x 11	76	5 x 11	76	6.3 x 11	95	6.3 x 11	95	8 x 11	120	10 x 12	150	10 x 16	180	13 x 20	240
100	6.3 x 11	125	6.3 x 11	125	8 x 11	160	8 x 11	160	10 x 16	230	10 x 20	265	13 x 20	320	16 x 25	425
220	8 x 11	215	8 x 11	215	10 x 12	275	10 x 16	305	13 x 20	410	13 x 25	480	16 x 25	575	18 x 36	720
330	8 x 11	265	10 x 16	345	10 x 16	375	13 x 20	450	13 x 20	505	16 x 25	650	16 x 32	655		
470	10 x 12	370	10 x 16	410	10 x 20	485	13 x 20	540	13 x 25	655	16 x 32	835	18 x 36	965		
1000	10 x 20	650	13 x 20	720	13 x 25	855	16 x 25	950	16 x 32	1140						
2200	13 x 25	1160	16 x 25	1280	16 x 32	1510	18 x 36	1620								
3300	16 x 25	1570	16 x 32	1690	18 x 36	1980										
4700	16 x 32	2020	18 x 36	2160												Case Size Ripple

Ripple current (mA) at 85°C 120Hz