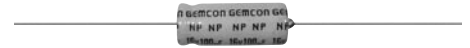


GNA Non-polar standard, 85°C Axial Type

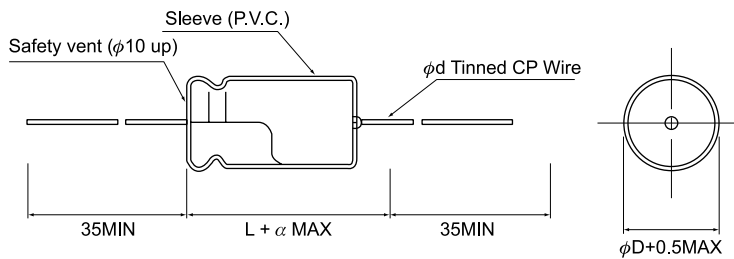
- Exhibits reliable performance in circuit where polarity reversible.
- Life guaranteed 2,000 hours/85°C.



• Specifications

Item	Performance Characteristics									
Operating Temperature range	-40 + 85°C									
Rated Voltage	6.3V ~ 100V									
Capacitance Range	0.1 ~ 2,200μF									
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	6	8	10	13	16	18
φd	0.6	0.6	0.8			
α	1.0	1.5	2.0			

• 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											6.3 x 13	15	6.3 x 16	15	6.3 x 16	18
1											6.3 x 13	22	6.3 x 16	22	6.3 x 16	26
2.2											6.3 x 13	32	6.3 x 16	32	6.3 x 16	38
3.3											6.3 x 13	38	6.3 x 16	38	6.3 x 16	46
4.7											6.3 x 13	45	6.3 x 16	40	6.3 x 16	55
10									6.3 x 13	55	8 x 16	75	8 x 16	50	10 x 21	100
22					6.3 x 13	83	8 x 16	100	8 x 16	115	8 x 16	125	10 x 21	140	10 x 21	180
33			6.3 x 13	90	6.3 x 13	110	8 x 16	120	8 x 16	140	8 x 20	160	10 x 21	180	10 x 26	230
47	6.3 x 13	90	6.3 x 13	110	8 x 16	120	8 x 16	140	8 x 20	160	10 x 21	180	10 x 26	150	13 x 26	290
100	8 x 16	140	8 x 20	175	8 x 20	200	10 x 21	230	10 x 26	280	13 x 26	360	13 x 26	210	16 x 38	520
220	8 x 20	200	10 x 21	290	10 x 26	360	13 x 26	430	13 x 26	510	13 x 31	590	16 x 38	410		
330	10 x 21	320	10 x 26	405	13 x 26	480	13 x 26	520	13 x 31	600	16 x 31	720				
470	10 x 26	385	13 x 26	510	13 x 26	540	13 x 31	660	16 x 31	770						
1000	13 x 26	690	13 x 31	760	16 x 31	980										
2200	16 x 31	1240	16 x 38	1400												Case Size Ripple

Ripple current (mA) at 85°C 120Hz