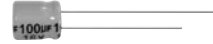


# GMN 7mm Height, 85°C Non-polar Series

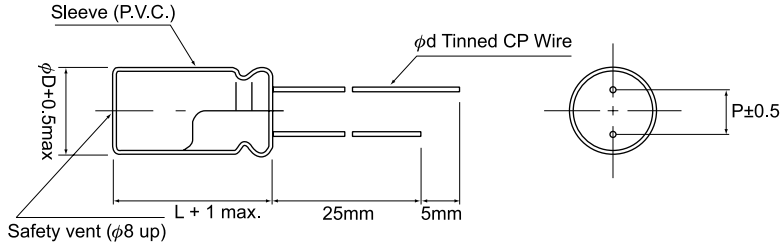
- Miniature sized for Non-polar application.
- Life guaranteed 1,000 hours/85°C.



• Specifications

Item	Performance Characteristics						
Operating Temperature range	-40 + 85°C						
Rated Voltage	6.3V ~ 50V						
Capacitance Range	0.1 ~ 220 μF						
Capacitance Tolerance	±20% (120Hz, 20°C)						
Leakage Current	I ≤ 0.05CV or 10 μA, whichever is greater after 2 minutes application of rated voltage.						
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50
	Tan δ (max.)	0.24	0.20	0.16	0.16	0.14	0.12
Temperature Characteristics (120Hz)	Impedance Ratio / Stability at Low Temperature						
	Rated voltage (V)	6.3	10	16	25	35	50
	Z (-25°C) / Z (20°C)	4	3	2	2	2	2
	Z (-40°C) / Z (20°C)	8	6	4	4	3	3
Load Life	After 1,000 hours application of WV at 85°C, reversing polarity at each 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	4	5	6	8
P	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.5

• Standard Products Table

WV(SV) Cap (μF)	Dφ x L (mm)											
	6.3 (10)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1											4 x 7	1
0.22											4 x 7	2.3
0.33											4 x 7	3.5
0.47											4 x 7	5
1											4 x 7	10
2.2											4 x 7	14
3.3									4 x 7	16	5 x 7	20
4.7					4 x 7	18	5 x 7	21	5 x 7	22	6.3 x 7	27
10			4 x 7	24	5 x 7	30	6.3 x 7	35	6.3 x 7	37	8 x 7	44
22			5 x 7	40	6.3 x 7	51	6.3 x 7	53	8 x 7	62	8 x 7	65
33	5 x 7	42	6.3 x 7	56	6.3 x 7	63	8 x 7	73	8 x 7	76		
47	6.3 x 7	58	6.3 x 7	67	6.3 x 7	75	8 x 7	87				
100	8 x 7	95	8 x 7	110	8 x 7	125						
220	8 x 7	140									Case Size	Ripple

Ripple current (mA) at 85°C 120Hz