

GDN Non-polar Standard Series

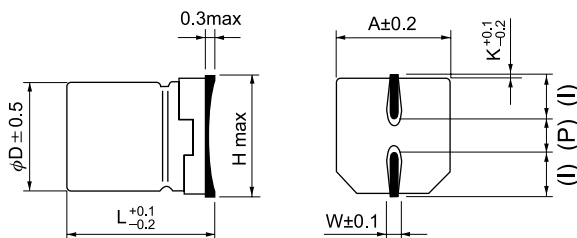
- For surface mounted & Non-polar application.
- Life guaranteed 2,000 hours/85°C.



• Specifications

Item	Performance Characteristics						
Operating Temperature range	-40 + 85°C						
Rated Voltage	6.3V ~ 50V						
Capacitance Range	0.1 ~ 47 μF						
Capacitance Tolerance	±20% (120 Hz, 20°C)						
Leakage Current	I ≤ 0.05CV or 10 μA, whichever is greater after 2 minutes application of rated voltage.						
Dissipation Factor (120 Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50
	Tan δ (max.)	0.26	0.22	0.20	0.20	0.20	0.18
Temperature Characteristics (120 Hz)	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 2,000 hours application of WV at 85°C with every 250 hours polarity reversed, the capacitor shall meet the characteristics mentioned below.						
	Capacitance change	Within ± 25% 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. (With voltage treatment)						
Resistance to Soldering Heat	Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.						
	Capacitance change	Within ±10% of initial value					
	Tan δ	≤ initial specified value					
	Leakage current	≤ initial specified value					

• Dimension (mm)



Dφ	L	A	H	I	W	P	K
4	5.4	4.3	5.5	1.8	0.65	1.0	0.35
5	5.4	5.3	6.5	2.2	0.65	1.5	0.35
6.3	5.4	6.6	7.8	2.6	0.65	2.1	0.35

• Standard Products Table

WV(SV) Cap (μF)	Dφ x L (mm)											
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1											4 x 5.4	2
0.22											4 x 5.4	3
0.33											4 x 5.4	4
0.47											4 x 5.4	5
1											4 x 5.4	7
2.2									4 x 5.4	10	5 x 5.4	12
3.3							5 x 5.4	13	5 x 5.4	14	5 x 5.4	14
4.7					4 x 5.4	14	5 x 5.4	16	5 x 5.4	17	6.3 x 5.4	19
10			4 x 5.4	19	5 x 5.4	23	6.3 x 5.4	27	6.3 x 5.4	28		
22	5 x 5.4	29	6.3 x 5.4	36	6.3 x 5.4	39						
33	6.3 x 5.4	41	6.3 x 5.4	45	6.3 x 5.4	48						
47	6.3 x 5.4	49									Case Size	Ripple

Ripple current (mA) at 85°C 120Hz