

GDH 105°C Standard Series

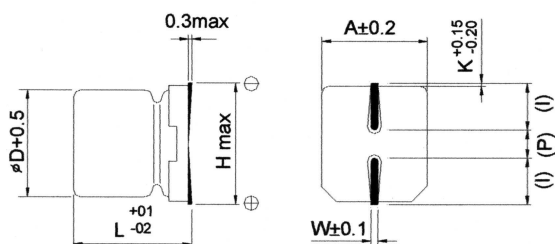
- For surface mounted and wide temperature operating.
- Life guaranteed 1,000 hours/105°C.



• Specifications

Item	Performance Characteristics							
Operating Temperature range	-55 + 105°C							
Rated Voltage	6.3V ~ 50V							
Capacitance Range	0.1 ~ 1,500 μF							
Capacitance Tolerance	±20% (120 Hz, 20°C)							
Leakage Current	I ≤ 0.01CV or 3μA, 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.)	4φ ~ 6.3φ	0.30	0.22	0.16	0.14	0.12	0.12
		8φ ~ 10φ	0.35	0.26	0.20	0.16	0.14	0.12
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 1,000 hours application of WV at 105°C, capacitor shall meet the characteristics mentioned below.							
	Capacitance change	Within ±30% of initial value for 6.3V, ≤ 25% of initial value for 10~50V						
	Tan δ	200% or less of initial specified value						
	Leakage current	Initial specified value or less						
Shelf Life	At 105°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
8	6.2	8.3	9.5	3.4	0.65	2.2	0.35
8	10.2	8.3	10.0	3.4	0.90	3.1	0.70
10	10.2	10.3	12.0	3.5	0.90	4.6	0.70

• Standard Products Table

Dφ x L (mm)

WV(SV) Cap μF	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1 ~ 0.47											4 x 5.4	
1											4 x 5.4	8
2.2											4 x 5.4	11
3.3											4 x 5.4	14
4.7							4 x 5.4	14	4 x 5.4	15	5 x 5.4	19
10					4 x 5.4	19	5 x 5.4	23	4 x 5.4	22	6 x 5.4	31
22					4 x 5.4	28	6.3 x 5.4	39	6.3 x 5.4	42	8 x 6.2	60
33	5 x 5.4	32	5 x 5.4	35	6.3 x 5.4	45	6.3 x 5.4	48	6.3 x 5.4 ○	50	8 x 10.2	90
47	5 x 5.4	38	6.3 x 5.4	48	6.3 x 5.4	55	6.3 x 5.4 ○	60	8 x 10.2	100	8 x 10.2 △	110
100	6.3 x 5.4	65	6.3 x 5.4 ○	70	6.3 x 5.4 ◇	80	6.3 x 7.7	100	8 x 10.2 △	150	8 x 10.2 △	160
220	6.3 x 5.4	95	8 x 10.2	160	8 x 10.2 △	180	8 x 10.2 △	200	8 x 10.2 △	220	10 x 10.2	270
330	8 x 10.2	170			8 x 10.2 △	220	8 x 10.2 △	250	10 x 10.2	300		
470			8 x 10.2 △	230	8 x 10.2 △	270	10 x 10.2	340				
1000	8 x 10.2 △	290	10 x 10.2	370								
1500	10 x 10.2	410									Case Size	Ripple

Size also available for symbol : ○: 8 x 6.2 ◇: 8 x 10.2 △: 10 x 10.2

Ripple current (mA) at 105°C 120 Hz