

GUH 5mm Height, 105°C Standard Series

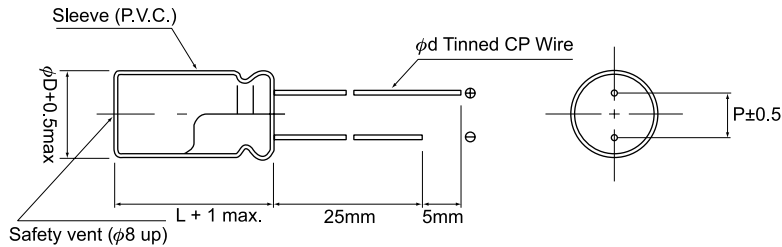
- Miniature sized for general-purpose application.
- Working temperature range up to 105°C.
- Life guaranteed 1,000 hours/105°C.



• Specifications

Item	Performance Characteristics							
Operating Temperature range	-40 + 105°C							
Rated Voltage	4V ~ 50V							
Capacitance Range	0.1 ~ 470 µF							
Capacitance Tolerance	±20% (120Hz, 20°C)							
Leakage Current	I ≤ 0.02CV or 4 µA, whichever is greater after 2 minutes application of rated voltage.							
Dissipation Factor (120Hz, 20°C)	Rated voltage (V)	4	6.3	10	16	25	35	50
	Tan δ (max.)	0.35	0.28	0.24	0.20	0.16	0.13	0.12
Temperature Characteristics (120Hz)	Impedance Ratio / Stability at Low Temperature							
	Rated voltage (V)	4	6.3	10	16	25	35	50
	Z (-25°C) / Z (20°C)	6	3	3	2	2	2	2
	Z (-40°C) / Z (20°C)	12	8	5	4	3	3	3
Load Life	After 1,000 hours application of WV at 105°C, 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 105°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	0.45

• Standard Products Table

WV(SV) Cap (µF)	Dφ x L (mm)													
	4 (5)		6.3 (10)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)	
0.1													4 x 5	1
0.22													4 x 5	2
0.33													4 x 5	3
0.47													4 x 5	5
1													4 x 5	7
2.2													4 x 5	10
3.3													4 x 5	13
4.7									4 x 5	13	4 x 5	15	5 x 5	18
10							4 x 5	18	5 x 5	22	5 x 5	25	6.3 x 5	30
22	4 x 5	22	4 x 5	22	5 x 5	27	5 x 5	30	6.3 x 5	38	6.3 x 5	42	8 x 5	50
33	5 x 5	30	5 x 5	31	5 x 5	34	6.3 x 5	42	6.3 x 5	47	8 x 5	55		
47	5 x 5	36	5 x 5	37	6.3 x 5	46	6.3 x 5	50	6.3 x 5	58	8 x 5	72		
100	6.3 x 5	60	6.3 x 5	62	6.3 x 5	68	6.3 x 5	75	8 x 5	96				
220	6.3 x 5	75	6.3 x 5	85	8 x 5	120	8 x 5	130						
330	8 x 5	126	8 x 5	142										
470	8 x 5	160											Case Size	Ripple

Ripple current (mA) at 105°C 120Hz