

GMH 7mm Height, 105°C Standard Series

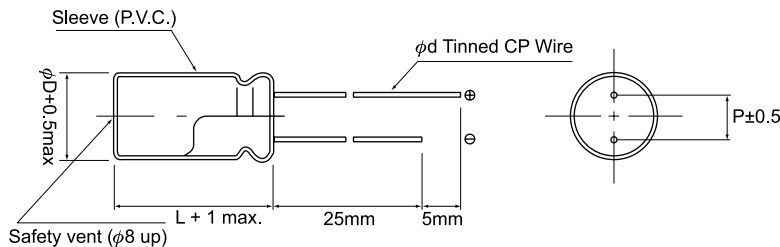
- Miniature sized for general-purpose application.
- Working temperature range up to 105°C.
- Life guaranteed 1,000 hours/105°C.



• 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 ≤ 0.01CV or 3 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	0.24	0.21	0.18	0.15	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	2	2	2	2	2
	Z (-40°C) / Z (20°C)	12	6	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	0.5

• 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 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	18
3.3													4 x 7	23
4.7											4 x 7	24	4 x 7	26
10							4 x 7	29	4 x 7	31	5 x 7	36	6.3 x 7	44
22			4 x 7	34	4 x 7	36	4 x 7	38	5 x 7	46	6.3 x 7	55	6.3 x 7	58
33			4 x 7	38	4 x 7	40	5 x 7	48	6.3 x 7	60	6.3 x 7	62	8 x 7	70
47	4 x 7	38	4 x 7	44	5 x 7	50	5 x 7	59	6.3 x 7	68	6.3 x 7	72	8 x 7	88
100	4 x 7	48	5 x 7	72	5 x 7	80	6.3 x 7	92	8 x 7	112	8 x 7	120		
220	6.3 x 7	90	6.3 x 7	112	6.3 x 7	120	8 x 7	146						
330	8 x 7	142	8 x 7	150	8 x 7	162	8 x 7	180						
470	8 x 7	210	8 x 7	230									Case Size	Ripple

Ripple current (mA) at 105°C 120Hz