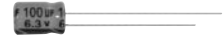


GML 7mm Height, 85°C Low Leakage Current Series

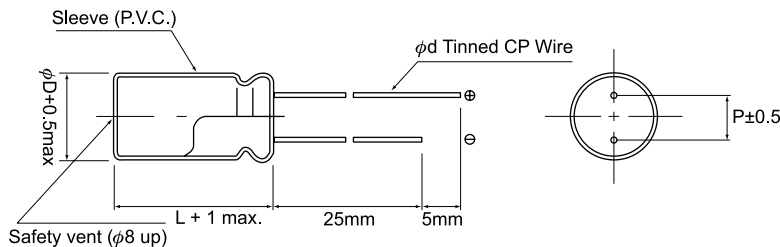
- Miniature sized and low leakage current at high reliability.
- Low cost replacement for Tantalum capacitor application.
- Life guaranteed 1,000 hours/85°C.



• 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 ≤ 0.002CV or 0.4 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	0.14	0.12	0.10
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, 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	19
3.3											4 x 7	24
4.7									4 x 7	24	5 x 7	29
10					4 x 7	29	5 x 7	33	5 x 7	36	6.3 x 7	44
22	4 x 7	34	5 x 7	38	5 x 7	44	6.3 x 7	51	6.3 x 7	57	8 x 7	65
33	5 x 7	42	5 x 7	47	6.3 x 7	57	6.3 x 7	63	8 x 7	72		
47	5 x 7	50	6.3 x 7	59	6.3 x 7	68	8 x 7	78				
100	6.3 x 7	77	8 x 7	96	8 x 7	107						
220	8 x 7	130									Case Size	Ripple

Ripple current (mA) at 85°C 120Hz