

GDZ 105°C Low impedance series

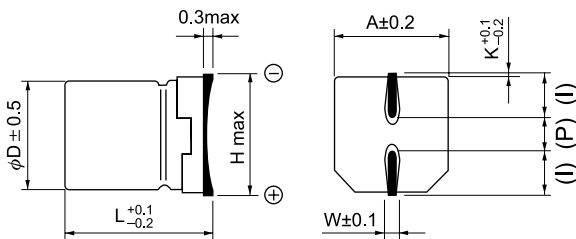
- For surface mounted and high frequency application.
- Life guaranteed 1,000 hours/105°C.



• Specifications

Item	Performance Characteristics						
Operating Temperature range	-55 + 105°C						
Rated Voltage	6.3V ~ 50V						
Capacitance Range	1 ~ 100 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.)	0.22	0.19	0.16	0.14	0.12	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)	2	2	2	2	2	2
	Z (-55°C) / Z (20°C)	5	4	4	3	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, ≤ 20% 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

• Standard Products Table

WV(SV) \ Cap (μF)	Dφ x L (mm)																	
	6.3 (8)			10 (13)			16 (20)			25 (32)			35 (44)			50 (63)		
	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.	D x L	Imp.	R.C.
1													4 x 5.4	3.9	60	4 x 5.4	4.9	30
2.2													4 x 5.4	3.6	60	4 x 5.4	4.5	30
3.3													4 x 5.4	3.0	60	4 x 5.4	3.7	30
4.7										4 x 5.4	3.1	60	4 x 5.4	2.5	60	5 x 5.4	3.1	41
6.8										4 x 5.4	2.7	60	5 x 5.4	2.2	60	6.3 x 5.4	2.7	55
10							4 x 5.4	3.3	60	5 x 5.4	2.4	65	5 x 5.4	1.9	70	6.3 x 5.4	2.4	70
22	4 x 5.4	3.2	60	5 x 5.4	2.2	65	5 x 5.4	1.8	85	6.3 x 5.4	1.3	110	6.3 x 5.4	1.0	120			
33	5 x 5.4	2.4	65	5 x 5.4	1.7	75	6.3 x 5.4	1.4	120	6.3 x 5.4	1.0	140						
47	5 x 5.4	2.0	80	6.3 x 5.4	1.4	110	6.3 x 5.4	1.1	140									
68	6.3 x 5.4	1.5	110	6.3 x 5.4	1.1	130												
100	6.3 x 5.4	1.2	130	6.3 x 5.4	0.9	150												

Impedance: (Ω) max. at 20°C 100KHz Ripple current (mA) at 105°C 100KHz