

GZ series

Features

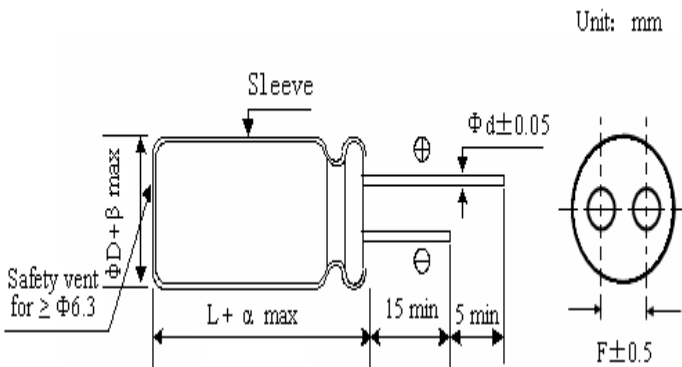
- ◆ Low impedance for high frequency, 2000 hours at 105°C .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics									
Temperature Range	-40~+105°C									
Rated Voltage Range	6.3~100Vdc									
Capacitance Range	10~4700µF									
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current (+20°C,max.)	I≤0.01CV 或 3 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied									
Dissipation Factor (tgδ) 120Hz, +20°C	Working Voltage(Vdc)	6.3 10 16 25 35 50 63 100								
	D.F (%) max.	22 19 16 14 12 10 9 8								
For capacitance>1000µF, Add 2% per another 1000µF (120Hz, +20°C)										
Low Temperature Characteristics (120Hz)	Impedance ratio max.									
	Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100	
	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2	
Z-40°C / Z+20°C		8	6	4	3	3	3	3	3	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C									
	Rated Voltage	6.3 to 10Vdc				16 to 100Vdc				
	Capacitance Change	≤±30% of the initial value				≤±25% of the initial value				
	D.F.(tgδ)	≤200% of the initial specified value								
Leakage Current	≤The initial specified value									
	Shelf Life									
After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the load life characteristics listed above.										
Others										
JISC-5101(IEC 60384)										

Diagram of Dimensions



Frequency Multipliers

µF \ Hz	120	1K	10K	100K
<220	0.40	0.75	0.90	1.00
220~470	0.50	0.85	0.94	1.00
680~1500	0.60	0.87	0.95	1.00
2200~3300	0.75	0.90	0.95	1.00
4700	0.85	0.95	0.98	1.00

ΦD	5	6.3	8	10	13	16
F	2.0	2.5	3.5	5.0	5.0	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8
α	(L< 20) + 1.5		(L≥20) + 2.0			
β	(D< 20) + 0.5		(D≥20) + 1.0			

GZ series**Standard Ratings**

Voltage	6.3V			10V			16V			25V		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
10										5×11	2.26	106
22										5×11	1.03	157
47							5×11	0.58	210	5×11	0.48	229
100	5×11	0.58	210	5×11	0.58	210	6.3×11	0.22	340	6.3×11	0.22	340
220	6.3×11	0.22	340	6.3×11	0.22	340	8×12	0.13	640	8×12	0.13	640
330	6.3×11	0.22	340	6.3×11	0.22	340	8×12	0.13	640	8×12	0.13	640
470	8×12	0.13	640	8×12	0.13	640	8×12	0.13	640	8×16	0.087	840
680	8×12	0.13	640	8×12	0.13	640	8×16	0.087	840	10×17	0.060	1210
1000	8×12	0.13	640	8×16	0.087	840	10×17	0.060	1210	10×20	0.046	1400
1500	8×20	0.069	1050	10×20	0.046	1400	10×20	0.046	1400	13×20	0.040	1680
2200	10×20	0.046	1400	10×20	0.046	1400	13×20	0.035	1900	13×25	0.030	2124
3300	10×25	0.042	1650	13×25	0.030	2124						
4700	13×25	0.030	2124									

Voltage	35V			50V			63V			100V		
Cap(μF)	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
10										6.3×11	0.96	115
22	5×11	0.59	180	5×11	0.63	163	6.3×11	0.96	115	8×12	0.50	232
33	5×11	0.46	207	6.3×11	0.30	295	6.3×11	0.96	115	8×12	0.50	232
47	6.3×11	0.22	340	6.3×11	0.30	295	8×12	0.50	232	10×12	0.344	314
68	6.3×11	0.22	340	8×12	0.17	555	8×12	0.50	232	10×17	0.248	357
100	8×12	0.13	640	8×12	0.15	680	8×16	0.36	300	10×20	0.168	466
220	8×12	0.13	640	10×17	0.084	1050	10×20	0.168	466	13×25	0.096	922
330	8×20	0.069	1050	13×20	0.045	1660	13×20	0.128	690	16×25	0.085	1440
470	10×17	0.060	1210	13×25	0.034	1950	13×25	0.079	1012	16×30	0.080	1650
680	10×20	0.046	1400	13×25	0.034	1950	13×25	0.079	1012	16×35	0.035	2085
1000	13×20	0.035	1900	16×25	0.032	2350	16×30	0.030	1500			
2200	16×30	0.030	2550	18×30	0.030	3913						

Max Allowable Ripple Current (mA,rms) at 105°C 100KHz, Max Impedance(Ω) at 20°C 100 KHz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.