

### GF series Features

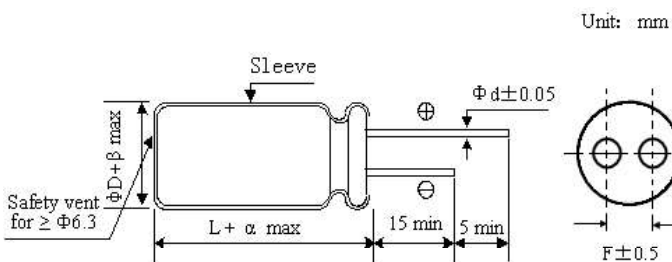
- ◆ Low impedance for high ripple current , 2000 to 4000 hours at 105 °C .
- ◆ Used in communication equipments ,switching power supply, industrial measuring instruments, etc.
- ◆ RoHS Compliant.



### Specifications

Item	Performance Characteristics								
Temperature Range	-40~+105℃								
Rated Voltage Range	6.3~100Vdc								
Capacitance Range	2.2~4700μF								
Capacitance Tolerance	±20% (120Hz, +20℃)								
Leakage Current (+20℃,max.)	I≤0.01CV或3 (μA)								
	After 2 minutes, whichever is greater measured with rated working voltage applied								
Dissipation Factor (tgδ) 120Hz, +20℃	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℃)								
Low Temperature Characteristics (120Hz)	Impedance ratio max.								
	Working Voltage(Vdc)	6.3	10	16	25	35	50	63	100
	Z-25℃/ Z+20℃	4	3	2	2	2	2	2	2
	Z-40℃/ Z+20℃	8	6	4	3	3	3	3	3
	For capacitance>1000μF , Add 0.5 per another 1000μF For Z-25℃/ Z+20℃,Add 1.0 per another 1000μF For Z-40℃/ Z+20℃								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple Current is applied for the specified period of time at 105℃								
	Time	Φ5 to Φ6.3:2000hours ,Φ8 to Φ10:3000hours, ≥Φ13:4000hours							
	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℃ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃, 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
2200~3900	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	18	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8
α	(L< 20) + 1.5				(L≥20) + 2.0			
β	(D< 20) + 0.5				(D≥20) + 1.0			