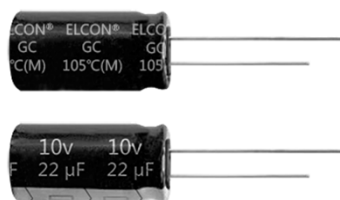


GC

Series

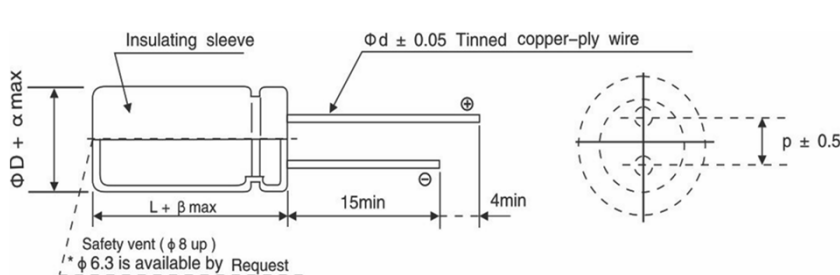
- Wide operating temperature range of -40~+105°C
- Smaller case sizes than EG series
- Voltage range of 6.3~450V
- High CV value



SPECIFICATIONS

Item	Characteristics										
Category Temperature Range	-40 ~ +105℃				-40 ~ +105℃C				-25 ~ +105℃		
Voltage Range	6.3 ~ 100V.DC				160 ~ 350V.DC				400 ~ 450V.DC		
Nominal Cap. Range	0.1 ~ 22000μF										
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)										
Leakage Current	WV	6.3~100V.DC						160~450V.DC			
	L.C.	I=0.01CV or 3 (μA), whichever is greater(after 2min)						I=0.02CV+ 15(μA) (after 5min)			
		I=0.03CV or 4 (μA), whichever is greater(after 1min)									
	where, I: max leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V) (at 20℃)										
Dissipation Factor (MAX) (tanδ) (at 120Hz , 20℃)	WV	6.3	10	16	25	35	50	63	100	160~250	400~450
	tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20
	When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.										
Low Temp.Impedance Stability at 120Hz	WV	6.3	10	16	25~100	160	200~350	400	450		
	Z-25℃ /	5	4	3	2	3	4	6	10		
	Z-40℃ / Z+20℃	8	6	4	3	4	8	---	---		
Endurance	After 2000 hours application of DC rated working voltage at 105℃, the capacitor shall meet the following limits.										
	Capacitance change				≤ ±20% of the initial value						
	Dissipation Factor				≤ 200% of the initial specified value						
	Leakage Current				≤ the initial specified value						
Shelf Life	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met.										

DRAWING



Unit: (mm)

ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5			0.6		0.8	
β	1.0			2.0			
α	0.5						

MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	60(50)	120	300	1K	10K
Cap.(μF)					
0.1~47	0.75	1.00	1.35	1.55	2.00
68~680	0.80	1.00	1.25	1.34	1.50
1000~2200	0.85	1.00	1.10	1.13	1.15

(2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00

STANDARD RATINGS

[illegible]