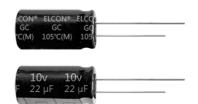
GC

Series

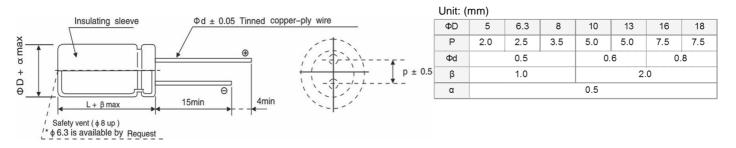
- Wide operating temperature range of -40~+105°C
- Smaller case sizes than EG series
- Voltage range of 6.3~450V
- High CV value



■SPECIFICATIONS

Item		Characteristics											
Category Temperature Range		-40 ~	+105°C			-	40 ~ +105°C°	-25 ~ +105°C					
Voltage Range	6.3 ~ 100V.DC						60 ~ 350V.D	400 ~ 450V.DC					
Nominal Cap. Range						(0.1 ~ 22000µ	ıF					
Capacitance Tolerance		± 20 % (at 120Hz , 20℃)											
	WV			6.3~	100V.D	С				160~4	50V.DC		
Leakage Current	L.C.	L.C. I=0.01CV or 3 (μA), whichever is greater(after 2min) I=0.03CV or 4 (μA), whichever is greater(after 1min) I=0.02CV+ 15(μA) (after 5min)										er 5min)	
	where, I: max leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V) (at 20°C)												
	WV	6.3	10	16	25	35	50	63	100	160	~250	400~450	
Dissipation Factor (MAX)	tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15		0.20	
(tanδ) (at 120Hz , 20℃)	When nominal capacitance is over 1000μF,												
	$tan\delta$ shall be added 0.02 to the listed value with increase of every 1000 μ F.												
Law Taran Jana dana	WV		6.3	10	16	23~10	160	200~3 50	400	450	1		
Low Temp.Impedance Stability at 120Hz	Z-25°C /		5	4	3	2	3	4	6	10			
Stability at 120H2	Z-40°C / Z+20°C		8	6	4	3	4	8]		
	After 2000 hours application of DC rated working voltage at 105°C, the capacitor shall meet the following limits.												
Endurance	Capaci	tance ch	ange		≤ ±20% of the initial value								
	Dissipation Factor				≤ 200% of the initial specified value								
	Leakage Current ≤ the initial specified value												
Shelf Life	to be gi	After storage for 1000 hours at 105°C 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



■ MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz)	60(50)	120	300	1K	10K
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	

GC Series ■STANDARD RATINGS

WV(vdc)	6.3 10		16		2	25	35		50		63			
Parameter		Rippie		Rippie		кірріе		Rippie		кірріе		кірріе		Kippie
They		Current		Current		Current		Current		Current		Current		Current
/ %	ΦDxL	(mArms)	ΦDxL	(mArms)	ΦDxL	(mArms)	ΦDxL	(mArms)	ΦDxL	(mArms)	ΦDxL	(mArms)	ΦDxL	(mArms)
	(mm)	,	(mm)	,	(mm)	,	(mm)	,	(mm)	,	(mm)	,	(mm)	,
Con (UE)	,	105°C	, ,	105°C	,	105°C	,	105°C	, ,	105°C	, ,	105°C	, ,	105°C
Cap.(µF)		120Hz		120Hz		120Hz		120Hz		120Hz		120Hz		120Hz
0.10											5x11	1.2	5x11	1.2
0.22											5x11	2.5	5x11	2.5
0.33											5x11	4	5x11	4
0.47											5x11	8	5x11	8
0.68											5x11	10	5x11	10
1.0											5x11	12	5x11	12
2.2											5x11	24	5x11	26
3.3											5x11	29	5x11	32
4.7											5x11	35	5x11	38
6.8											5x11	42	5x11	46
10											5x11	51	5x11	56
15											5x11	62	5x11	68
22											5x11	75	5x11	83
33											5x11	92	6.3x11	116
47									5x11	96	6.3x11	127	6.3x11	139
68							5x11	108	6.3x11	132	8x11.5	180	8x11.5	197
100					5x11	119	6.3x11	151	6.3x11	160	8x11.5	218	8x11.5	239
150			5x11	134	6.3x11	167	6.3x11	185	8x11.5	231	10x12.5		10x12.5	
220	5x11	146	5x11	162	6.3x11	203	8x11.5	264	8x11.5	280	10x12.5		10x16	451
330	6.3x11	206	6.3x11	328	8x11.5	293	8x11.5	324	10x12.5		10x16	504	10x20	603
470	6.3x11	246	6.3x11	272	8x11.5	349	10x12.5	449	10x12:0	521	10x10	657	13x20	844
									10x10	652				
680	8x11.5	348	10x12.5	449	10x12.5	448	10x16	591	13x16	740	13x20	927	13x25	1107
1000	8x11.5	422	10x12.5	544	10x16	648	10x20	782	13x20	974	13x25	1226	16x25	1490
1500	10x16	621	10x12:0	680	13x16	862	13x20	1017	16x20	1188	16x25	1442	16x36	1770
2200	10x10	778	10x10	844	13x20	1055	13x25	1235	16x25	1426	16x36	1794	10,00	.,,,
3300	13x16	983	13x20	1148	13x25	1323	16x25	1562	16x36	1857	18x36	2152		
4700	13x20	1219	13x25	1421	16x25	1657	16x31	1916	18x36	2224				
6800	13x25	1480	16x25	1737	16x31	1982	18x36	2335	10,00	<i></i>				
10000	16x25	1807	16x36	2172	18x36	2409	10,00	2000						
15000	16x36	2233	18x36	2482	1000	2-100								
2200	18x40	2652	10,00	2-102										
2200	107-10	2002	l				1		l		1		1	

WV(vdc)	1	00	160		200		250		350		400		4	50
Parameter	ФDxL	Ripple Current (mArms)												
	(mm)		(mm)		(mm)		(mm)		(mm)		(mm)		(mm)	
Cap.(µF)		105℃ 120Hz		105℃ 120Hz		105°C 120Hz								
0.1	5x11	2.5												
0.22	5x11	3.5												
0.33	5x11	5												
0.47	5x11	9	5x11	6	6.3x11	9	6.3x11	9						
1.0	5x11	13	5x11	9	6.3x11	13	6.3x11	13						
2.2	5x11	26	6.3x11	23	6.3x11	23	6.3x11	23	8x11.5	28	8x11.5	28	10x12.5	27
3.3	5x11	32	6.3x11	29	6.3x11	29	8x11.5	34	8x11.5	34	10x12.5	39	10x16	36
4.7	5x11	38	6.3x11	34	8x11.5	40	8x11.5	40	10x12.5		10x12.5	47	10x16	43
6.8	5x11	46	8x11.5	49	10x12.5	56	10x12.5	56	10x16	62	10x16	62	10x20	56
10	5x11	56	10x12.5		10x12.5		10x12.5	68	10x16	75	10x20	82	13x20	80
15	6.3x11	78	10x16	92	10x16	92	10x16	92	10x20	100	13x20	118	13x25	107
22	6.3x11	95	10x16	111	10x16	111	10x20	121	13x20	143	13x25	155	16x25	144
33	8x11.5	137	10x20	149	10x20	149	13x20	175	13x25	190	16x25	211	16x31	193
47	10x12.5	190	13x20	208	13x20	208	13x25	227	16x25	252	16x31	276	16x36	242
68	10x16	251	13x25	273	16x20	279	16x25	303	16x31	332	18x36	373		
100	10x20	332	13x25	311	16x25	368	16x31	402						
150	13x20	477	16x25	450	16x36	517	18x36	554						
220	13x25	630	16x31	596	18x36	671								
330	13x25	771	18x36	822										
470	16x25	1021												
680	16x31	1344												
1000	18x40	1925												