

Series: **GUE**
Type: **Screw Terminal**

Aluminium Electrolytic Capacitors
(Screw Terminal Type)

Japan

Miniaturization

■ Features

- Lifetime: 85 °C 2000 h
- Miniaturized size and high-ripple-current product

■ Recommended Applications

- For general-purpose inverter, power supply for backup system, motor-control inverter

■ Specifications

Operating Temp. Range	-25 to +85 °C						
Rated W.V. Range	350 to 450 V. DC						
Nominal Cap. Range	820 to 10000 µF						
Capacitance Tolerance	±20 % (120 Hz/+20 °C)						
DC Leakage Current	C: Capacitance (µF) V: W.V.(V.DC) $3\sqrt{CV}$ (µA) or 5 (mA) whichever, smaller, after 5 minutes application of rated working voltage at +20 °C						
tan δ	0.25 max. (120 Hz/+20 °C)						
Endurance	After 2000 hours application of DC voltage with specified ripple current (≤ rated DC working voltage) at +85 °C, the capacitor shall meet the following limits. <table> <tr> <td>Capacitance change</td><td>±20 % of initial measured value</td></tr> <tr> <td>tan δ</td><td>≤ 175 % of initial specified value</td></tr> <tr> <td>DC leakage current</td><td>≤ Initial specified value</td></tr> </table>	Capacitance change	±20 % of initial measured value	tan δ	≤ 175 % of initial specified value	DC leakage current	≤ Initial specified value
Capacitance change	±20 % of initial measured value						
tan δ	≤ 175 % of initial specified value						
DC leakage current	≤ Initial specified value						
Shelf Life	After storage for 1000 hours at +85 °C with no voltage applied, the capacitor shall meet the specified limits for "Endurance".						

■ Explanation of Part Numbers

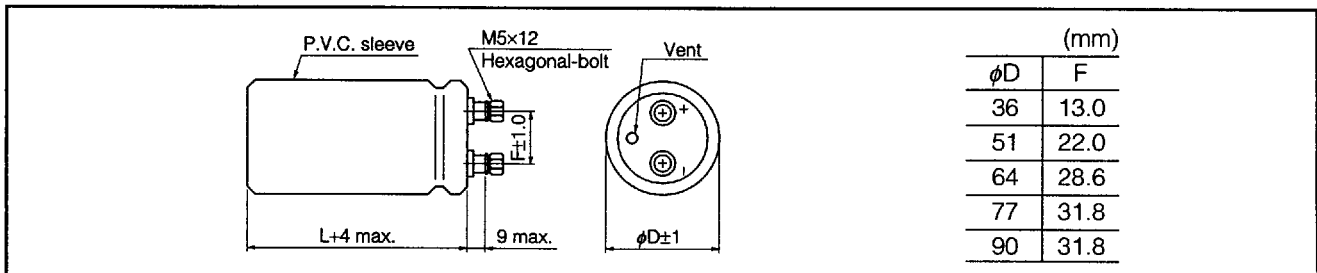
1	2	3	4	5	6	7	8	9	10	11	12
E	C	O	G			U					
Product Code			Style	R.W. Voltage Code		Series Code	N.Capacitance Code			Size	Option

W.V. code	2V	2G	2W
W.V.(V)	350	400	450

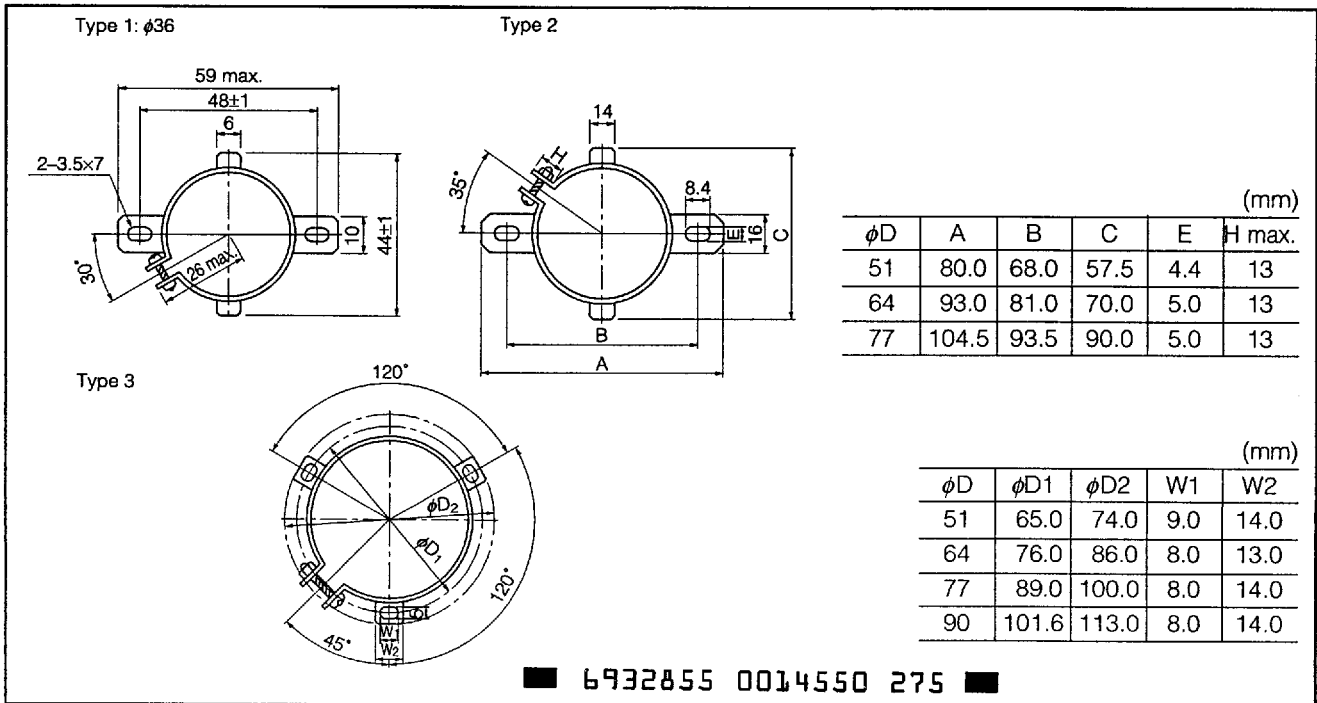
L(mm)	φD(mm)	36	51	64	77	90	L (mm)	Code	Mounting clamp
65		R□					65	N	without clamp
75		L△					103	F	with clamp (φ36-type 1 φ51 to φ90-type 3)
96		K△	G△	T△			125		
103		K□	G□	T□			145		
125		M□	J□	F□	D□		150	C	with clamp (φ51 to φ77-type 2)
145				E□	C□		75 96	Y	without clamp
150						A□		P	with clamp (φ36-type 1 φ51 to φ90-type 3)
								D	with clamp (φ51 to φ77-type 2)

* Our product code will be changed from ECOG □□ U to EEGZU □□ during April 1996 to March 1998
We will inform the revision date before our change.

■ Dimensions in mm (not to scale)



■ Mounting clamp



■ Case size/Ripple current: (A) r.m.s. (120 Hz/+85 °C)

● <GUE>

W.V. (V.DC)		350 (2V)(SV) 400 V		400 (2G)(SV) 450 V		450 (2W)(SV) 500 V	
Case size φD×L (mm)	Code	Cap. (μF)	Ripple current	Cap. (μF)	Ripple current	Cap. (μF)	Ripple current
36×125	M□	1000	3.36				
51× 65	R□	1000	3.36				
51× 75	L△	1200	3.69	1000	3.36	820	3.06
51× 96	K△	1500	4.53	1200	4.05	1000	3.72
		1800	4.98	1500	4.53	1200	4.05
51×103	K□	2200	5.91	1800	5.34		
51×125	J□	2700	6.90	2200	6.21	1500	5.13
64× 96	G△					1800	5.75
64×103	G□	3300	7.95	2700	7.20	2200	6.60
64×125	F□	3900	9.09	3300	8.37	2700	7.56
64×145	E□	4700	9.55	3900	8.74	3300	8.40
77× 96	T△	4700	9.55	3900	8.74		
77×103	T□					3300	8.40
77×125	D□	5600	11.49	4700	10.53	3900	9.57
77×145	C□	6800	13.56	5600	12.30		
		8200	14.91	6800	13.56	4700	11.28
90×150	A□	10000	16.83	8200	15.90	5600	13.41
						6800	14.46

() shows W.V. code.

■ Frequency Correction Factor for Ripple Current

		Freq. (Hz)						
W.V. (V)	φD (mm)	50	60	120	300	360	1 k	10 k
350	36	0.71	0.79	1.00	1.09	1.10	1.15	1.21
	51, 64	0.83	0.88	1.00	1.07	1.08	1.13	1.20
	77, 90	0.85	0.90	1.00	1.05	1.06	1.08	1.20
400, 450	36	0.65	0.74	1.00	1.09	1.10	1.16	1.22
	51, 64	0.81	0.87	1.00	1.07	1.08	1.13	1.21
	77, 90	0.85	0.90	1.00	1.05	1.06	1.11	1.20