## Type CGO Ultra Low ESR Screw Terminal Aluminum Electrolytic

#### Extremely Low ESR, Low Voltage, Screw Terminal Capacitors

Nor RECOMMENDED TO

Type CGO low voltage, low ESR, screw terminal aluminum electrolytic capacitors have extremely low ESR and are suitable for output filtering in switch mode power supply applications.

#### Highlights -

- Extremely low ESR
- Low voltage
- **Screw Terminal**
- 35 mm diameter **RoHS Compliant**

**Capacitance Range: Voltage Range:** 

2,800 to 45,000 µF 5 to 55 WVdc

pacitance Tolerance:

±20%

erating Temperature:

-40 to +85 °C

Ripple Current Multipliers:

The maximum ripple current at 85 °C and 20 kHz for CGO capacitors is shown in the standard Ratings Tables. Maximum ripple current may be adjusted by the multipliers in the tables below.

Ambient Temperature / Ripple Multiplier

+35 °C	+45 °C	+55 °C	+65 °C	+75 °C	+85 °C
2.15	1.93	1.73	1.50	1.30	1.00

Rated	7_	Frequenc	y / Ripple	Multiplier	
Voltage	(20 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
5 to 55	.84	.85	.86	.87	.95

**DC Leakage Current:**  $1 \le 1.5 \sqrt{\text{CV}}$  after 5 minutes

C = Capacitance in E

V = Rated Voltage

I = Leakage current in

QA Stability Test: Apply WVdc for 1000 h @ 85 %

Capacitance change ≤ 10 / Capacitance change cha

Click here to see: Hardware & Mounting **Options** 

Click here to see: Mechanical Details

# Type CGO Ultra Low ESR Screw Terminal Aluminum Electrolytic

### **Ratings**

	T						1
				Max			
	Catalog	Typica	I ESR	Ripple			
Cap	Part Number	120 Hz	20 kHz	20 kHz	Dia.	Length	
(µF)		(Ω)	(Ω)	(A) RMS	(ln.)	(ln.)	
K	5 W	Vdc ( 6 \	/dc Surg	ge)		•	
18000	€ <b>60</b> 183M005L	0.016	0.009	9.8	1.375	2.125	
	7.5 V	VVdc (9	Vdc Sui	ge)			
15000	CGO153177R5L	.0158	0.010	9.4	1.375	2.125	
21000	CGO213M7R5	0.013	0.008	10.9	1.375	2.625	
27000	CGO273M7R5L	0.011	0.007	12.7	1.375	3.125	
33000	CGO333M7R5L	0.009	0.006	14.2	1.375	3.625	
39000	CGO393M7R5L	0.009	0.006	15.5	1.375	4.125	
45000	CGO453M7R5L	0.008	0.005	17.5	1.375	4.625	
	10 W	Vdc ( 12	Vdc Su	rbe)			
14000	CGO143M010L	0.018	0.010	98	1.375	2.125	
19000	CGO193M010L	0.013	0.008	10.9	375	2.625	
	16 W	Vdc ( 18	Vdc Su	rge)		\	
10000	CGO103M016L	.0167	0.010	9.3	1.375	2.125	
14000	CGO143M016L	0.008	0.006	10.9	1.375	2.625	
18000	CGO183M016L	0.011	0.007	12.6	1.375	3.125	6
22000	CGO223M016L	0.010	0.006	14.2	1.375	3.625	O
	20 W	Vdc ( 22	Vdc Su	rge )			
12000	CGO123M020L	.0142	0.009	10.8	1.375	2.625	
16000	CGO163M020L	0.012	0.007	12.6	1.375	3.125	
20000	CGO203M020L	0.010	0.007	14.1	1.375	3.625	
22000	CGO223M020L	0.009	0.006	15.4	1.375	4.125	
27000	CGO273M020L	0.008	0.005	17.4	1.375	4.625	
34000	CGO343M020L	0.007	0.005	19.6	1.375	5.625	

				Max		
	Catalog	Typical ESR		Ripple		
Сар	Part Number	120 Hz 20 kHz			Dia.	Length
(μ <b>F</b> )		(Ω)	(Ω)	(A) RMS	(In.)	(ln.)
28 WVdc ( 32 Vdc Surge )						
6300	CGO632M028L	0.021	0.012	8.3	1.375	2.125
8800	CGO882M028L	0.017	0.010	9.9	1.375	2.625
8900	CGO892M028L	0.017	0.010	10.1	1.375	2.625
14000	CGO143M028L	0.012	0.008	13.1	1.375	3.625
	35 W\	/dc ( 40	Vdc Su	rge )		'
4,500	CGO452M035L	0.024	0.012	8.2	1.375	2.125
6300	CGO632M035L	0.019	0.010	9.8	1.375	2.625
8100	CGO812M035L	0.015	0.009	11.5	1.375	3.125
10000	CGO103M035L	0.013	0.008	13.0	1.375	3.625
14000	CGO143M035L	0.010	0.006	16.1	1.375	4.625
45 WVdc ( 50 Vdc Surge )						
3800	CGO382M045L	0.032	0.018	8.1	1.375	2.125
4600	CGO462M045L	0.024	0.013	9.7	1.375	2.625
10000	CGO103M045L	0.022	0.013	15.6	1.375	4.625
W.	55 W\	/dc ( 64	Vdc Su	rge )		
2800	CGO282M055L	.0302	0.015	7.5	1.375	2.125
3900	€€0392M055L	0.023	0.012	9.0	1.375	2.625
5000	CG0502M055L	0.019	0.010	10.6	1.375	3.125
10000	CGO103M055L	0.011	0.006	17.2	1.375	5.625
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