## Type CGR 105 °C High Temp Screw Terminal Aluminum Electrolytic

#### 105 °C, Screw Terminal Capacitors



Type CGR screw terminal, aluminum electrolytic capacitors have excellent reliability and are good for 2000 hours at 105 °C at full rated voltage.

#### **Highlights**

- High reliability 2000 hours at 105 °C
- Screw Terminal
- Commercial Equivalent of MIL-C-350 18/04, 06, 10

**RoHS Compliant** 

**Specifications** 

**Capacitance Range: Voltage Range:** 

330 to 100,000 µF 7.5 to 200 WVdc

**Capacitance Tolerance:** 

-10% +75% (7.5 - 50 WVdc

-10% +50% (51 - 200 W -40 °C to +105 °C

**Operating Temperature: Ripple Current Multipliers:** 

**Ambient Temperat** 

25 °C	35 °C	45 °C	55 °C	65 °C	85 °C
2.00	1.88	1.72	1.58	1.42	1.00

Rated		Frequency / Ripple Multiplier				
Voltage	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz	
10 to 75	1.000	1.050	1.085	1.135	1.150	
76 to 250	1.000	1.075	1.125	1.155	1.210	

DC Leakas

I≤ 6√CVafter 5 minutes Not to exceed 4.0 mA

C = Capacitance in µF V = Rated Voltage

I = Leakage current in  $\mu$ A

Click here to see: Hardware & Mounting

Click here to see: Mechanical Details

**Options** 

**QA Stability Test:** 

Apply WVdc for 2000 h @ 105 °C

- Capacitance change ±15% from initial limits
- DC leakage current meets initial limits
- ESR: ≤175% of initial measured value

Ratings

		Typical	Max Ripple				
	Catalog	ESR	120 Hz				
Сар	Part Number	120 Hz	+85 °C	Dia.	Length		
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)		
	7.5 WVdc ( 12 Vdc Surge )						
34,000	CGR343U7R5U3C	0.0128	14.4	1.75	3.125		
47,000	CGR473U7R5V3C	0.0098	17.8	2.00	3.125		
66,000	CGR663U7R5V4C	0.0068	23.8	2.00	4.125		
10 WVdc ( 12 Vdc Surge )							
24,000	CGR243U010R3C	0.011	9.5	1.375	3.125		

		Typical	Max Ripple				
	Catalog	ESR	120 Hz				
Сар	Part Number	120 Hz	+85 °C	Dia.	Length		
(μ <b>F</b> )		(Ω)	(A) RMS	(Inches)	(Inches)		
12 WVdc ( 15 Vdc Surge )							
12,000 (	CGR123U012R2L	0.0154	10.6	1.375	2.625		
100,000 (	CGR104U012W5C	0.0043	30.0	2.500	5.125		
16 WVdc ( 15 Vdc Surge )							
7,700	CGR772U016R2C	0.0231	7.9	1.375	2.125		
11,000	CGR113U016R2L	0.0161	10.3	1.375	2.625		

# Type CGR 105 °C High Temp Screw Terminal Aluminum Electrolytic

### **Ratings**

		Typical	Max Ripple		
	Catalog	ESR	120 Hz		
Сар	Part Number	120 Hz	+85 °C	Dia.	Length
(μF)		(Ω)	(A) RMS	(Inches)	(Inches)
/	16 WV	dc ( 20 Vd		, ,	, ,
14,000	CGR143U016R3C	0.0119	12.9	1.375	3.125
16,000	CGR163U016U2L	0.0173	11.6	1.750	2.625
20,000	CGR203U016R4C	0.0084	17.2	1.375	4.125
30,000	CGR303U016V3C	0.0098	17.8	2.000	3.125
42,000	CGR423U016V4C	0.0075	22.7	2.000	4.125
51,000	CGR513U016W3C	0.0085	22.0	2.500	3.125
	20 WV	'dc ( 30 Vd	c Surge )		
4,600	CGR462U020R2C	0.022	8.1	1.375	2.125
10,000	CGR103U020R3L	0.011	14.6	1.375	3.625
21,000	CGR213U020V3L	0.009	19.7	2.000	3.625
	30 WV	dc ( 45 Vd	c Surge )		
2,200	CGR222U030R1N	0.035	5.9	1.375	1.875
4,900	CGR492U030U2C	0.025	10.3	1.750	2.125
7,400	CGR742U030R3L	0.011	14.6	1.375	3.625
10,000	CGR103U030R4L	0.008	18.9	1.375	4.625
12,000	CGR123U030V3C	0.010	17.8	2.000	3.125
15,000	CGR153U030V3L	0.009	19.7	2.000	3.625
27,000	CGR273U030V5L	0.005	30.0	2.000	5 625
30,000	CGR303U030W4C	0.006	29.1	2.500	4.125
	40 WV	dc ( 60 Vd	c Surge )	'J	
2,100	CGR212U040R2C	0.025	7.7	1.375	2.125
3,900	CGR392U040R3C	0.013	12.2	1.375	3.125
5,600	CGR562U040R4C	0.009	16.6	1.375	4.125
7,400	CGR742U040R5C	0.010	12.3	1.375	5.125
9,600	CGR962U040V3L	0.009	19.7	2.000	3.625
13,000	CGR133U040V4L	0.007	25.0	2.000	4.625
22,000	CGR223U040W4L	0.006	30.0	2.500	4.625
31,000	CGR313U040X4L	0.005	30.0	3.000	4.625

		Typical	Max Ripple			
	Catalog	ESR	120 Hz			
Сар	Part Number	120 Hz	+85 °C	Dia.	Length	
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)	
	50 WVd	lc ( 75 Vd	c Surge )			
1,000	CGR102U050R1N	0.1001	3.5	1.375	1.875	
1,500	CGR152U050R2C	0.0672	4.7	1.375	2.125	
2,900	CGR292U050R3C	0.0357	7.4	1.375	3.125	
4,100	CGR412U050R4C	0.0180	8.3	1.375	4.125	
6,200	CGR622U050R5L	0.0168	14.0	1.375	5.625	
7,600	CGR762U050V3C	0.0165	13.7	2.000	3.125	
10,000	CGR103U050V4C	0.0113	18.5	2.000	4.125	
16,000	CGR163U050V5L	0.0085	24.2	2.000	5.625	
21,000	CGR213U050W4L	0.0077	26.8	2.500	4.625	
27,000	CGR273U050W5L	0.0060	30.0	2.500	5.625	
37,000	CGR373U050X5L	0.0051	30.0	3.000	5.625	
\$	75 WVd	c ( 100 V	dc Surge )			
1,200	CGR122T075R2L	0.0497	5.9	1.375	2.625	
1,800	CGR182T075R3L	0.0329	8.2	1.375	3.625	
2,000	CGR202U075R3C	0.0220	6.7	1.375	3.125	
2,200	CGR222T075R4C	0.0200	7.9	1.375	4.125	
3,100	CGR312T075V2L	0.0350	11.0	2.000	2.625	
4,100	CGR412T075U4C	0.0140	10.9	1.750	4.125	
4,700	CGR472T075V3L	0.0150	15.2	2.000	3.625	
7,500	CGR752U075V5L	0.0095	16.2	2.000	5.625	
8,000	CGR802T075W3L	0.0085	16.4	2.500	3.625	
9,600	CGR962T075W4C	0.0094	23.2	2.500	4.125	
11,000	CGR113T075X3L	0.0102	23.8	3.000	3.625	
19,000	CGR193T075X5L	0.0056	30.0	3.000	5.625	
100 WVdc ( 135 Vdc Surge )						
330	CGR331T100R2C	0.0940	2.8	1.375	2.125	
2,700	CGR272T100V4L	0.0120	18.8	2.000	4.625	
4,500	CGR452T100W4L	0.0094	24.3	2.500	4.625	
8,000	CGR802T100X5L	0.0085	21.8	3.000	5.625	
200 WVdc ( 250 Vdc Surge )						
3,500	CGR352T200X4C	0.024	11.5	3	4.125	
5,200	CGR522T200X5L	0.017	15.4	3	5.625	

**Notice and Disclaimer:** All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any quarantee, warranty or representation regarding any such matter - and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indisee (MPerson cated in such warnings, cautions and notes, or that other safety measures may not be required.