## 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

<b>Specifications</b> -	MIL-C-350 18/04, 06, 10									
specifications -	Capacitance Range:         330 to 100,000 μF           Voltage Range:         7.5 to 200 WVdc           Capacitance Tolerance:         -10% +75% (7.5 - 50 WVdc)           Operating Temperature:         -40 °C to +105 °C									
	<b>Ripple Current Multipliers:</b>	7.5 to 200 WVdc -10% +75% (7.5 - 50 WVdc) -10% +50% (51 - 200 WVdc)								
		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 Leakage Current:	<ul> <li>I≤ 6√CVafter 5 minutes</li> <li>Not to exceed 4.0 mA</li> <li>C = Capacitance in μF</li> </ul>								

Click here to see: Hardware & Mounting Options

**QA Stability Test:** 

#### **<u>Click here to see: Mechanical Details</u>**

Apply WVdc for 2000 h @ 105 °C

I = Leakage current in  $\mu A$ 

V = Rated Voltage

Capacitance change ±15% from initial limits

Dia.

(Inches)

1.375 2.500

1.375

1.375

Length (Inches)

2.625

5.125

2.125

2.625

- DC leakage current meets initial limits
- ESR: ≤175% of initial measured value

#### **Ratings** -

		Typical	Max Ripple					Typical	Max Ripple		
	Catalog	ESR	120 Hz				Catalog	ESR	120 Hz		
Сар	Part Number	120 Hz	+85 °C	Dia.	Length	Сар	Part Number	120 Hz	+85 °C		
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)	(µF)		(Ω)	(A) RMS		
	7.5 WVdc(12 Vdc Surge)					12 WVdc ( 15 Vdc Surge )					
34,000	CGR343U7R5U3C	0.0128	14.4	1.75	3.125	12,000	CGR123U012R2L	0.0154	10.6		
47,000	CGR473U7R5V3C	0.0098	17.8	2.00	3.125	100,000	CGR104U012W5C	0.0043	30.0		
66,000	CGR663U7R5V4C	0.0068	23.8	2.00	4.125		16 WV	/dc ( 15 Vc	lc Surge )		
	10 WVdc ( 12 Vdc Surge )					7,700	CGR772U016R2C	0.0231	7.9		
24,000	CGR243U010R3C	0.011	9.5	1.375	3.125	11,000	CGR113U016R2L	0.0161	10.3		

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		Typical	Max Ripple					Typical	Max Ripple		
	Catalog	ESR	120 Hz				Catalog	Max ESR	120 Hz		
Сар	Part Number	120 Hz	+85 °C	Dia.	Length	Сар	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)	(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
16 WVdc ( 20 Vdc Surge )					50 WVdc ( 75 Vdc Surge )						
14,000	CGR143U016R3C	0.0119	12.9	1.375	3.125	1,000	CGR102U050R1N	0.1001	3.5	1.375	1.875
16,000	CGR163U016U2L	0.0173	11.6	1.750	2.625	1,500	CGR152U050R2C	0.0672	4.7	1.375	2.125
20,000	CGR203U016R4C	0.0084	17.2	1.375	4.125	2,900	CGR292U050R3C	0.0357	7.4	1.375	3.125
30,000	CGR303U016V3C	0.0098	17.8	2.000	3.125	4,100	CGR412U050R4C	0.0180	8.3	1.375	4.125
42,000	CGR423U016V4C	0.0075	22.7	2.000	4.125	,	CGR622U050R5L	0.0168	14.0	1.375	5.625
51,000	CGR513U016W3C	0.0085	22.0	2.500	3.125		CGR762U050V3C	0.0165	13.7	2.000	3.125
20 WVdc ( 30 Vdc Surge )				,	CGR103U050V4C	0.0103	18.5	2.000	4.125		
4,600	CGR462U020R2C	0.022	8.1	1.375	2.125						
	CGR103U020R3L	0.011	14.6	1.375	3.625		CGR163U050V5L	0.0085	24.2	2.000	5.625
21,000	CGR213U020V3L	0.009	19.7	2.000	3.625	,	CGR213U050W4L	0.0077	26.8	2.500	4.625
	30 WV	dc ( 45 Vd	lc Surge)			27,000	CGR273U050W5L	0.0060	30.0	2.500	5.625
	CGR222U030R1N	0.035	5.9	1.375	1.875	37,000	CGR373U050X5L	0.0051	30.0	3.000	5.625
	CGR492U030U2C	0.025	10.3	1.750	2.125		75 WV	dc ( 100 Vc	lc Surge )		
	CGR742U030R3L	0.011	14.6	1.375	3.625	1,200	CGR122T075R2L	0.0497	5.9	1.375	2.625
	CGR103U030R4L	0.008	18.9	1.375	4.625	1,800	CGR182T075R3L	0.0329	8.2	1.375	3.625
	CGR123U030V3C	0.010	17.8	2.000	3.125	2,000	CGR202U075R3C	0.0220	6.7	1.375	3.125
	CGR153U030V3L	0.009	19.7	2.000	3.625	2,200	CGR222T075R4C	0.0200	7.9	1.375	4.125
	CGR273U030V5L	0.005	30.0	2.000	5.625	3,100		0.0350	11.0	2.000	2.625
30,000	CGR303U030W4C	0.006	29.1	2.500	4.125	4,100		0.0140	10.9	1.750	4.125
0.400		dc ( 60 Vd	<u> </u>	4.075	0.405	, i					
l '	CGR212U040R2C	0.025	7.7	1.375	2.125	4,700		0.0150	15.2	2.000	3.625
	CGR392U040R3C CGR562U040R4C	0.013	12.2 16.6	1.375	3.125 4.125	,	CGR752U075V5L	0.0095	16.2	2.000	5.625
	CGR5020040R4C CGR742U040R5C	0.009 0.010	10.0	1.375 1.375	5.125		CGR802T075W3L	0.0085	16.4	2.500	3.625
	CGR962U040K3C	0.010	12.3	2.000	3.625	9,600	CGR962T075W4C	0.0094	23.2	2.500	4.125
	CGR133U040V4L	0.003	25.0	2.000	4.625	11,000	CGR113T075X3L	0.0102	23.8	3.000	3.625
	CGR223U040W4L	0.007	30.0	2.500	4.625	19,000	CGR193T075X5L	0.0056	30.0	3.000	5.625
	CGR313U040X4L	0.005	30.0	3.000	4.625	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
						,	CGR802T100X5L	0.0085	21.8	3.000	5.625
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200 WVdc (250 Vdc Surge)

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