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

Capacitance Range:	330 to 100,000 μF
Voltage Range:	7.5 to 200 WVdc
Capacitance Tolerance:	-10% +75% (7.5 - 50 WVdc)
	-10% +50% (51 - 200 WVdc)

Operating Temperature: Ripple Current Multipliers:

Ambient Temperature

-40 °C to +105 °C

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:	I≤ 6√CVafter 5 minutes
	Not to exceed 4.0 mA
	$C = Capacitance in \mu F$
	V = Rated Voltage
Click here to see: Hardware & Mounting	I = Leakage current in µA
Options	
QA Stability Test:	Apply WVdc for 2000 h @ 105 °C
	Capacitance change ±15% from initial limits

Click here to see: Mechanical Details

DC leakage current meets initial limits

ESR: ≤175% of initial measured value •

Ratings –

Сар	Catalog Part Number	Typical ESR 120 Hz	Max Ripple 120 Hz +85 °C	Dia.	Length	Сар	Catalog Part Number	Typical ESR 120 Hz	Max Ripple 120 Hz +85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(inches)	(Inches)	(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
	7.5 WV	dc (12 Vdo	c Surge)			12 WVdc (15 Vdc Surge)					
34,000	CGR343U7R5U3C	0.0128	14.4	1.75	3.125	12,000	CGR123U012R2L	0.0154	10.6	1.375	2.625
47,000	CGR473U7R5V3C	0.0098	17.8	2.00	3.125	100,000	CGR104U012W5C	0.0043	30.0	2.500	5.125
66,000	CGR663U7R5V4C	0.0068	23.8	2.00	4.125		16 W\	/dc (15 Vo	lc Surge)		
	10 WVc	lc (12 Vdc	: Surge)			7,700	CGR772U016R2C	0.0231	7.9	1.375	2.125
24,000	CGR243U010R3C	0.011	9.5	1.375	3.125	11,000	CGR113U016R2L	0.0161	10.3	1.375	2.625

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

		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 WV	dc (20 Vd	c Surge)				50 W\	/dc (75 Vd	c 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 WV	dc (30 Vd	c Surge)			, i	CGR1020050V3C				4.125
4,600	CGR462U020R2C	0.022	8.1	1.375	2.125	,		0.0113	18.5	2.000	
10,000	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	c Surge)			27,000	CGR273U050W5L	0.0060	30.0	2.500	5.625
2,200	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		0.0200	7.9	1.375	4.125
	CGR273U030V5L	0.005	30.0	2.000	5.625	3,100		0.0200	11.0	2.000	2.625
30,000	CGR303U030W4C	0.006	29.1	2.500	4.125	,					
		dc (60 Vd				4,100		0.0140	10.9	1.750	4.125
,	CGR212U040R2C	0.025	7.7	1.375	2.125	4,700		0.0150	15.2	2.000	3.625
	CGR392U040R3C	0.013	12.2	1.375	3.125	7,500	CGR752U075V5L	0.0095	16.2	2.000	5.625
	CGR562U040R4C	0.009	16.6	1.375	4.125	8,000	CGR802T075W3L	0.0085	16.4	2.500	3.625
	CGR742U040R5C	0.010	12.3	1.375	5.125	9,600	CGR962T075W4C	0.0094	23.2	2.500	4.125
	CGR962U040V3L	0.009	19.7	2.000	3.625	11,000	CGR113T075X3L	0.0102	23.8	3.000	3.625
,	CGR133U040V4L	0.007	25.0	2.000	4.625	19,000) CGR193T075X5L	0.0056	30.0	3.000	5.625
	CGR223U040W4L	0.006	30.0	2.500	4.625	,		/dc (135 V			
31,000	CGR313U040X4L	0.005	30.0	3.000	4.625	330	CGR331T100R2C	0.0940	2.8	1.375	2.125
							CGR272T100V4L	0.0120	18.8	2.000	4.625
						,					
						,	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)

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