# **Type CGH Inverter Grade Screw Terminal Aluminum Electrolytic**

# 85 °C, Screw Terminal Capacitors



Type CGH screw terminal, aluminum electrolytic capacitors have excellent reliability and a high ripple current capability making them suitable for most AC drive and UPS applications.

### Highlights –

- High ripple current
- High reliability at 85 °C
- Screw Terminal RoHS Compliant

**Specifications** 

**Capacitance Range: Voltage Range: Capacitance Tolerance: Operating Temperature: Ripple Current Multipliers:** 

350 to 22,000 µF
250 to 500 WVdc

-10% +50%

-40 to +85 °C

**Ambient Temperature** 

+35 °C	+45 °C	+55 °C	+65 °C	+75 °C	+85 °C		
2.45	2.25	2.00	1.70	1.40	1.00		

Rated	Frequency / Ripple Multiplier											
Voltage	120 Hz	400 Hz	2500 Hz	10 kHz								
250 to 450	1.000	1.080	1.113	1.175	1.230							

**DC Leakage Current:**  $I \le 6 \sqrt{CV}$  after 5 minutes

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

 $C = Capacitance in \mu F$ 

Not to exceed 6.0 mA

- V = Rated Voltage
- I = Leakage current in  $\mu A$

#### **Click here to see: Mechanical Details**

QA Stability Test: Apply WVdc for 1000 h @ 85 °C

- Capacitance change ≤10% from initial limits
- DC leakage current meets initial limits
- ESR ≤175% of initial measured value

## Ratings -

	Catalog	Туріса	al ESR	Max F	Ripple				Catalog		Typical ESR		Max Ripple		
Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length	Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length
(µF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(In.)	(ln.)	(μF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(In.)	(ln.)
	250 WVdc ( 300 Vdc Surge )						250 WVdc ( 300 Vdc Surge )								
1,700	CGH172T250V2L	65.8	42.1	4.0	5.0	2.0	2.625	7,400	CGH742T250X3L	27.1	17.3	10.3	12.9	3.0	3.625
2,900	CGH292T250V3L	53.1	34.0	5.7	7.1	2.0	3.625	9,000	CGH902T250W5L	16.3	10.4	14.1	17.6	2.5	5.625
4,100	CGH412T250V4L	25.7	16.4	9.1	11.4	2.0	4.625	10,000	CGH103T250X4L	20.4	13.1	13.0	16.3	3.0	4.625
5,000	CGH502T250W3L	26.9	17.2	9.2	11.5	2.5	3.625	13,000	CGH133T250X5L	16.8	10.8	15.6	19.5	3.0	5.625
5,300	CGH532T250V5L	20.6	13.2	11.0	13.8	2.0	5.625	22,000	CGH223T250X8L	11.5	7.4	22.3	27.9	3.0	8.625
7,000	CGH702T250W4L	20.1	12.9	11.7	14.6	2.5	4.625								

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# Ratings

,		120 Hz (mΩ)		120 Hz	20 kHz	1			-						
1,000 C		<b>N</b> 7	(			Dia.	Length	Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length
,			(mΩ)	(Arms)	(Arms)	(In.)	(In.)	(µF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(In.)	(ln.)
,	CGH102T350V2L	350 WVdc ( 400 Vdc Surge )								WVdc (	525 Vd	lc Surge )			
4 700 0		162.6	104.1	2.9	3.6	2.0	2.625	3,100	CGH312T450W5L	31.7	20.3	10.1	12.6	2.5	5.625
1,700   C	CGH172T350V3L	81.9	52.4	4.6	5.8	2.0	3.625	3,600	CGH362T450X4L	32.6	20.9	10.3	12.9	3	4.625
2,400 C	CGH242T350V4L	58.8	37.6	6.0	7.5	2.0	4.625	4,600	CGH462T450X5L	26.2	16.8	12.4	15.5	3	5.625
2,700 C	CGH272T350W3L	54.3	34.8	6.5	8.1	2.5	3.625	7,700	CGH772T450X8L	17.3	11.1	18.2	22.8	3	8.625
2,900 C	CGH292T350W3L	53.1	34.0	6.8	8.5	2.5	3.625		500	WVdc (	550 Vd	lc Surge )			
3,100 C	CGH312T350V5L	46.2	29.6	7.4	9.3	2.0	5.625	350	CGH351T500V2 C	692.0	612.0	1.3	1.5	2.0	2.125
3,800 C	CGH382T350W4L	39.3	25.2	8.4	10.5	2.5	4.625	520	CGH521T500V2L	470.0	416.0	1.7	1.9	2.0	2.625
4,000 C	CGH402T350X3L	44.3	28.4	8.1	10.1	3.0	3.625	710	CGH711T500V3 C	345.0	305.0	2.1	2.4	2.0	3.125
4,100 C	CGH412T350W4L	38.6	24.7	8.6	10.8	2.5	4.625	900	CGH901T500V3L	272.0	241.0	2.5	2.8	2.0	3.625
4,300 C	CGH432T350X3L	43.5	27.8	8.4	10.5	3.0	3.625	1100	CGH112T500V4 C	225.0	199.0	3.1	3.3	2.0	4.125
4,900 C	CGH492T350W5L	31.5	20.2	10.1	12.6	2.5	5.625	1200	CGH122T500W3 C		196.0	3.1	3.4	2.5	3.125
5,200 C	CGH522T350W5L	31.1	19.9	10.3	12.9	2.5	5.625	1300	CGH132T500V4L	192.0	170.0	3.3	3.7	2.0	4.625
5,700 C	CGH572T350X4L	32.5	20.8	10.3	12.9	3.0	4.625	1500	CGH152T500V5 C	168.0	148.0	3.7	4.1	2.0	5.125
6,000 C	CGH602T350X4L	32.3	20.7	10.6	13.3	3.0	4.625		CGH152T500W3L	172.0	140.0	3.6	4.1	2.0	3.625
7,300 C	CGH732T350X5L	25.9	16.6	12.5	15.6	3.0	5.625	1500							
7,800 C	CGH782T350X5L	25.6	16.4	12.8	16.0	3.0	5.625	1700	CGH172T500V5L	149.0	132.0	4.0	4.5	2.0	5.625
10,000 C	CGH103T350X8L	20.7	13.2	16.6	20.8	3.0	8.625	1800	CGH182T500W4 C		126.0	4.2	4.7	2.5	4.125
	450	WVdc (	525 Vdd	: Surge )				2100	CGH212T500W4L	121.0	108.0	4.8	5.3	2.5	4.625
620 C	CGH621T450V2L	159.6	102.1	2.9	3.6	2.0	2.625	2200	CGH222T500X3L	124.0	111.0	4.8	5.4	3.0	3.625
1,000 C	CGH102T450V3L	83.4	53.4	4.8	6.0	2.0	3.625	2400	CGH242T500W5 C	106.0	99.1	5.3	6.0	2.5	5.125
1,400 C	CGH142T450V4L	60.3	38.6	5.9	7.4	2.0	4.625	2700	CGH272T500W5L	93.9	83.5	5.9	6.6	2.5	5.625
1,700 C	CGH172T450W3L	55.3	35.4	6.4	8.0	2.5	3.625	2700	CGH272T500X4 C	103.0	91.8	5.6	6.3	3.0	4.125
1,800 C	CGH182T450V5L	47.6	30.5	7.2	9.0	2.0	5.625	3100	CGH312T500X4L	87.4	78.4	6.3	7.0	3.0	4.625
2,400 C	CGH242T450W4L	40.1	25.7	8.3	10.4	2.5	4.625	3600	CGH362T500X5 C	76.3	68.4	7.0	7.8	3.0	5.125
2,500 C	CGH252T450X3L	44.9	28.7	8.0	10.0	3.0	3.625		CGH412T500X5L	67.8	60.8	7.7	8.6	3.0	5.625
									CGH692T500X8L	41.0	36.9	11.9	13.2	3.0	8.625

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