## Type CGH Inverter Grade Screw Terminal Aluminum Electrolytic

### 85 °C, Screw Terminal Capacitors

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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**

**Capacitance Range: Voltage Range:** 

**Capacitance Tolerance:** -10% +50% **Operating Temperature:** -40 to +85 °C

350 to 22,000 µF 250 to 500 WVdc

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

Operating Temperature:	-40 to +8	5 5				
	Ambient 7		ature			
1/1/2	+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		Frequenc	y / Ripple	Multiplier	
	Voltage	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
	1	i	ı	i i		
DC Leakage Current:	250 to 450	1.000	1.080	1.113	1.175	1.230

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

**QA Stability Test:** 

**Click here to see: Mechanical Details** 

Not to exceed 6.0 mA ₹ Capacitance in μF Rated Voltage

= Leakage current in µA

Apply WVdc 10, 1000 h @ 85 °C

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

## Ratings -

	Catalog	Typica	I ESR Max R		Ripple		
Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length
(µF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(ln.)	(ln.)
	250	WVdc (	300 Vd	c Surge )			
1,700	CGH172T250V2L	65.8	42.1	4.0	5.0	2.0	2.625
2,900	CGH292T250V3L	53.1	34.0	5.7	7.1	2.0	3.625
4,100	CGH412T250V4L	25.7	16.4	9.1	11.4	2.0	4.625
5,000	CGH502T250W3L	26.9	17.2	9.2	11.5	2.5	3.625
5,300	CGH532T250V5L	20.6	13.2	11.0	13.8	2.0	5.625
7,000	CGH702T250W4L	20.1	12.9	11.7	14.6	2.5	4.625

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	Catalog	Typica	al ESR	Max F	Ripple		
Сар	Part Number	120 Hz 20 kHz		120 Hz	20 kHz	Dia.	Length
(µF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(ln.)	(ln.)
	250	WVdc (	300 Vd	c Surge )		9	
7,400	CGH742T250X3L	27.1	17.3	10.3	12.9	3.0	3.625
9,000	CGH902T250W5L	16.3	10.4	14.1	17.6	2.5	5.625
10,000	CGH103T250X4L	20.4	13.1	13.0	16.3	3.0	4.625
13,000	CGH133T250X5L	16.8	10.8	15.6	19.5	3.0	5.625
22,000	CGH223T250X8L	11.5	7.4	22.3	27.9	3.0	8.625

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# **Ratings**

	Catalog	Typica	al ESR	Max F	Ripple			
Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length	
(uF)		(mΩ)	(mΩ)	(Arms)	(Arms)	(ln.)	(ln.)	
\(\hat{\rangle}\)	350	WVdc (	400 Vd	c Surge )				
1,000	CGH102T350V2L	162.6	104.1	2.9	3.6	2.0	2.625	
1,700	CGH172T350V3L	81.9	52.4	4.6	5.8	2.0	3.625	
2,400	CGH2427350V4L	58.8	37.6	6.0	7.5	2.0	4.625	
2,700	CGH272T350(V3)	54.3	34.8	6.5	8.1	2.5	3.625	
2,900	CGH292T350W3L	58.1	34.0	6.8	8.5	2.5	3.625	
3,100	CGH312T350V5L	46.2	29.6	7.4	9.3	2.0	5.625	
3,800	CGH382T350W4L	39.3	25.2	8.4	10.5	2.5	4.625	
4,000	CGH402T350X3L	44.3	28.4	<b>\$</b> 8.1	10.1	3.0	3.625	
4,100	CGH412T350W4L	38.6	24.7	86	10.8	2.5	4.625	
4,300	CGH432T350X3L	43.5	27.8	8.4	10.5	3.0	3.625	
4,900	CGH492T350W5L	31.5	20.2	10.1	12.6	2.5	5.625	
5,200	CGH522T350W5L	31.1	19.9	10.3	12.9	25	5.625	
5,700	CGH572T350X4L	32.5	20.8	10.3	12.9	3.0	4.625	
6,000	CGH602T350X4L	32.3	20.7	10.6	13.3	3.0	4.625	
7,300	CGH732T350X5L	25.9	16.6	12.5	15.6	3.0	5.625	
7,800	CGH782T350X5L	25.6	16.4	12.8	16.0	3.0	5.625	
10,000	CGH103T350X8L	20.7	13.2	16.6	20.8	3.0	8.625	
	450	WVdc (	525 Vd	c Surge )				
620	CGH621T450V2L	159.6	102.1	2.9	3.6	2.0	2.625	
1,000	CGH102T450V3L	83.4	53.4	4.8	6.0	2.0	3.625	
1,400	CGH142T450V4L	60.3	38.6	5.9	7.4	2.0	4.625	
1,700	CGH172T450W3L	55.3	35.4	6.4	8.0	2.5	3.625	
1,800	CGH182T450V5L	47.6	30.5	7.2	9.0	2.0	5.625	
2,400	CGH242T450W4L	40.1	25.7	8.3	10.4	2.5	4.625	
2,500	CGH252T450X3L	44.9	28.7	8.0	10.0	3.0	3.625	

	Catalog	Typica	al ESR	Max F	Ripple			
Сар	Part Number	120 Hz	20 kHz	120 Hz	20 kHz	Dia.	Length	
(μF)		(mΩ)	(mΩ)	(Arms)	(A <sub>rms</sub> )	(ln.)	(ln.)	
450 WVdc ( 525 Vdc Surge )								
3,100	CGH312T450W5L	31.7	20.3	10.1	12.6	2.5	5.625	
l '	CGH362T450X4L	32.6	20.9	10.3	12.9	3	4.625	
	CGH462T450X5L	26.2	16.8	12.4	15.5	3	5.625	
7,700	CGH772T450X8L	17.3	11.1	18.2	22.8	3	8.625	
	500		( <b>550 V</b> d	c Surge )		ı	I	
350	CGH351T500V2 C	692.0	612.0	1.3	1.5	2.0	2.125	
520	CGH521T500V2L	470.0	416.0	1.7	1.9	2.0	2.625	
710	CGH711T500V3 C	345.0	305.0	2.1	2.4	2.0	3.125	
900	CGH901T500V3L	272.0	241.0	2.5	2.8	2.0	3.625	
1100	CGH112T500V4 C	225.0	199.0	3.1	3.3	2.0	4.125	
1200	CGH122T500W3 C	218.0	196.0	3.1	3.4	2.5	3.125	
1300	CGH132T500V4L	192.0	170.0	3.3	3.7	2.0	4.625	
1500	CGH152T500V5 C	168.0	148.0	3.7	4.1	2.0	5.125	
1500	CGH152T500W3L	172.0	153.0	3.6	4.1	2.5	3.625	
1700	CGH172T500V5L	149.0	132.0	4.0	4.5	2.0	5.625	
1	<b>C9</b> H182T500W4 C	142.0	126.0	4.2	4.7	2.5	4.125	
2100	CGH2/2T500W4L	121.0	108.0	4.8	5.3	2.5	4.625	
2200	CGH222 <b>15</b> 00X3L	124.0	111.0	4.8	5.4	3.0	3.625	
2400	CGH242T500W50	106.0	99.1	5.3	6.0	2.5	5.125	
2700	CGH272T500W5L	1938	83.5	5.9	6.6	2.5	5.625	
2700	CGH272T500X4 C	103.	91.8	5.6	6.3	3.0	4.125	
3100	CGH312T500X4L	87.4	AR.	6.3	7.0	3.0	4.625	
3600	CGH362T500X5 C	76.3	68.4	7.0	7.8	3.0	5.125	
4100	CGH412T500X5L	67.8	60.8	7.8	8.6	3.0	5.625	
6900	CGH692T500X8L	41.0	36.9	11.9	MAN AND AND AND AND AND AND AND AND AND A	3.0	8.625	
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