

Types CGS, CG, CGR, CGO, CGH

Part Number Information

MALLORY

Mallory Catalog Number: CGS 184 U 010 X3L * (3 P H)

TYPE NUMBER: _____
Identifies the basic type
CGS, CG, CGR, CGO, CGH

CAPACITANCE: _____
Expressed in microfarads
The first two digits are significant figures
The third digit is the number of zeros

CAPACITANCE TOLERANCE: _____
U = -10% + 75% (6.3 to 150 VDC)
T = -10% + 50% (151 to 450 VDC)
M = $\pm 20\%$

DC VOLTAGE RATING: _____
Zeros are used to precede the voltage rating where
necessary to complete the three digit block
The letter 'R' indicates a decimal point

CASE CODE: _____
See page 67 for sizes

INSULATING SLEEVE: _____
3 = .008 PVC insulating material. (Standard)

POLARITY: _____
P = Polar
N = Non Polar

TERMINAL: _____
H = High Post D = Low Post, Low Resistance Screw Mount (1/4 - 28 Thread)
L = Low Post F = High Post Metric Thread
S = Solder Lugs G = Low Post Metric Thread
V = Printed Circuit Mount N = High Post, Low Resistance Screw Mount (1/4 - 28 Thread)

* NOTE ! The standard parts shown in the General Catalog have PVC sleeving and are polar, with high post terminals as standard. The 3PH is left off the part number, but is assumed.
The CGO type has a 'L' at the end of the part number which stands for 'low post', while the case code has been omitted.
Check Standard Parts List for case size

Types CGS, CG, CGR, CGO, CGH Dimensions and Size Charts

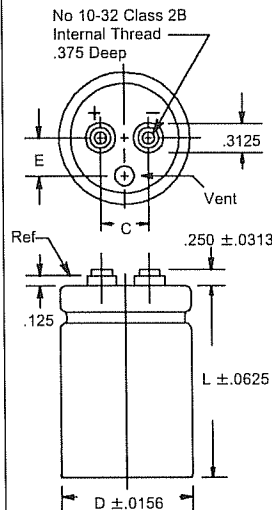
MALLORY

Case Code Chart

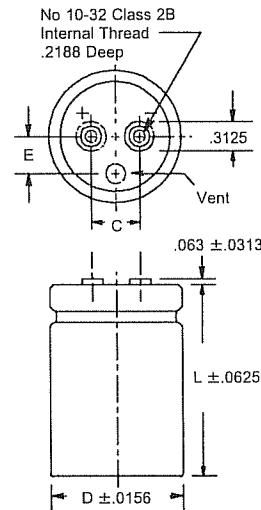
Uninsulated Can Size							
Case Code	Inches D	Inches L	mm D	mm L	Inches C	mm C	Mounting Bracket
R2C	1.375	2.125	35	54	.500	12.7	VR3
R2L	1.375	2.625	35	67	.500	12.7	VR3
R3C	1.375	3.125	35	79.4	.500	12.7	VR3
R3L	1.375	3.625	35	92	.500	12.7	VR3
R4C	1.375	4.125	35	105	.500	12.7	VR3
R4L	1.375	4.625	35	117.5	.500	12.7	VR3
R5C	1.375	5.125	35	130	.500	12.7	VR3
R5L	1.375	5.625	35	143	.500	12.7	VR3
U2C	1.750	2.125	44.5	54	.750	19	VR6
U2L	1.750	2.625	44.5	67	.750	19	VR6
U3C	1.750	3.125	44.5	79.4	.750	19	VR6
U3L	1.750	3.625	44.5	92	.750	19	VR6
U4C	1.750	4.125	44.5	105	.750	19	VR6
U4L	1.750	4.625	44.5	117.5	.750	19	VR6
U5C	1.750	5.125	44.5	130	.750	19	VR6
U5L	1.750	5.625	44.5	143	.750	19	VR6
V2C	2.000	2.125	50.8	54	.875	22.23	VR8
V2L	2.000	2.625	50.8	67	.875	22.23	VR8
V3C	2.000	3.125	50.8	79.4	.875	22.23	VR8
V3L	2.000	3.625	50.8	92	.875	22.23	VR8
V4C	2.000	4.125	50.8	105	.875	22.23	VR8
V4L	2.000	4.625	50.8	117.5	.875	22.23	VR8
V5C	2.000	5.125	50.8	130	.875	22.23	VR8
V5L	2.000	5.625	50.8	143	.875	22.23	VR8
W3C	2.500	3.125	63.5	79.4	1.125	28.58	VR10
W3L	2.500	3.625	63.5	92	1.125	28.58	VR10
W4C	2.500	4.125	63.5	105	1.125	28.58	VR10
W4L	2.500	4.625	63.5	117.5	1.125	28.58	VR10
W5C	2.500	5.125	63.5	130	1.125	28.58	VR10
W5L	2.500	5.625	63.5	143	1.125	28.58	VR10
X3L	3.000	3.625	76.2	92	1.250	31.75	VR12
X4C	3.000	4.125	76.2	105	1.250	31.75	VR12
X4L	3.000	4.625	76.2	117.5	1.250	31.75	VR12
X5C	3.000	5.125	76.2	130	1.250	31.75	VR12
X5L	3.000	5.625	76.2	143	1.250	31.75	VR12
X5R	3.000	5.875	76.2	149	1.250	31.75	VR12
X6L	3.000	6.625	76.2	168	1.250	31.75	VR12
X7L	3.000	7.625	76.2	194	1.250	31.75	VR12
X8L	3.000	8.625	76.2	219	1.250	31.75	VR12

Add .015 inches to diameter and .045 inches to length for PVC insulating sleeve.

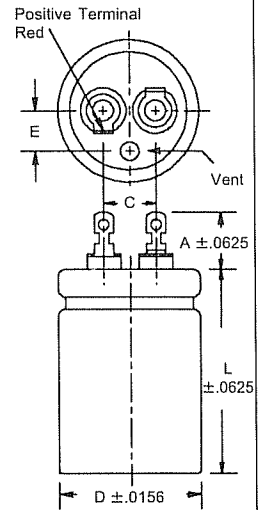
**High Post (H)
(Standard)**



Low Post (L)



Solder Lug (S)



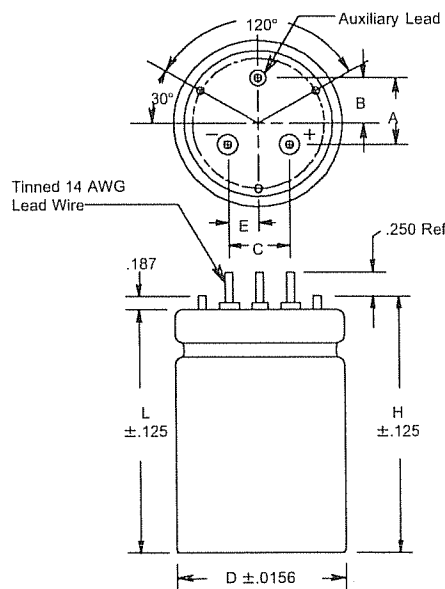
Can Dia	E
1.375	.390
1.750	.453
2.000	.500
2.500	.625
3.000	.750

Can Dia	E
1.375	.390
1.750	.453
2.000	.500
2.500	.625
3.000	.750

Can Dia	A	E
1.375	.56	.31
1.750	.65	.40
2.000	.65	.50
2.500	.65	.62
3.000	.65	.75

PC Mounting Board Dimensions

Uninsulated Can Size							
Case Code	D	L	H	A	B	C	E
R1N	1.375	1.750	1.937	.550	.375	.500	.250
R2C	1.375	2.125	2.312	.550	.375	.500	.250
R2L	1.375	2.625	2.812	.550	.375	.500	.250
R3C	1.375	3.125	3.312	.550	.375	.500	.250
R3L	1.375	3.625	3.812	.550	.375	.500	.250
R4C	1.375	4.125	4.312	.550	.375	.500	.250
R4L	1.375	4.625	4.812	.550	.375	.500	.250
R5C	1.375	5.125	5.312	.550	.375	.500	.250
R5L	1.375	5.625	5.812	.550	.375	.500	.250
V2C	2.000	2.125	2.312	1.000	.575	.800	.400
V2L	2.000	2.625	2.812	1.000	.575	.800	.400
V3C	2.000	3.125	3.312	1.000	.575	.800	.400
V3L	2.000	3.625	3.812	1.000	.575	.800	.400
V4C	2.000	4.125	4.312	1.000	.575	.800	.400
V4L	2.000	4.625	4.812	1.000	.575	.800	.400
V5C	2.000	5.125	5.312	1.000	.575	.800	.400
V5L	2.000	5.625	5.812	1.000	.575	.800	.400



Printed Circuit Board (V)

Type CG Aluminum Electrolytic Capacitor

85 °C, Screw Terminal Capacitors



Type CG screw terminal, aluminum electrolytic capacitors have excellent reliability and are good for 2000 hours at 85 °C at full rated voltage.

Highlights

- High reliability at 85 °C
- Screw Terminal
- Long Life

Specifications

Capacitance Range:	40 to 160,000 µF
Voltage Range:	10 to 450 WVdc
Capacitance Tolerance:	-10% +75% (10 - 150 WVdc) -10% +50% (151 - 450 WVdc)
Operating Temperature:	-40 °C to +85 °C
Ripple Current Multipliers:	Ambient Temperature

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 Voltage	Ripple Multiplier				
	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
251 to 450	1.000	1.080	1.130	1.175	1.230

DC Leakage Current: $I = 3 \sqrt{CV}$ after 5 minutes
Not to exceed 4.0 mA
C = Capacitance in µF
V = Rated Voltage
I = Leakage current in mA

QA Stability Test: Apply WVdc for 2000 h @ 85 °C

- Capacitance change ±15% from initial limits
- DC leakage current: 200% of limit
- ESR: 175% of limit

Ratings

Cap (μF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
10 WVdc (15 Vdc Surge)					
160,000	CG164U010X5L	0.006	27.1	3	5.625
16 WVdc (20 Vdc Surge)					
2,500	CG252U016R2C	0.047	3.9	1.375	2.125
6,500	CG652U016R2C	0.039	4.3	1.375	2.125
10,500	CG1052U016V3C	0.027	7.6	2.000	3.125

Cap (μF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
16 WVdc (20 Vdc Surge)					
12,000	CG123U016R3C	0.024	6.4	1.375	3.125
18,000	CG183U016R4C	0.018	8.3	1.375	4.125
21,000	CG213U016U3C	0.012	10.5	1.750	3.125
27,000	CG273U016V3C	0.012	11.4	2.000	3.125
40,000	CG403U016V4C	0.009	14.7	2.000	4.125

Type CG Aluminum Electrolytic Capacitor

Ratings

Cap (µF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR 120 Hz (Ω)	120 Hz +85 °C (A) RMS		
25 WVdc (40 Vdc Surge)					
1,500	CG152U025R2C	.058	3.5	1.375	2.125
2,800	CG282U025R3C	0.036	5.2	1.375	3.125
3,300	CG332U025R2C	0.043	4.1	1.375	2.125
4,500	CG452U025U3C	0.006	14.8	1.750	3.125
6,000	CG602U025V3C	0.029	7.3	2.000	3.125
6,300	CG632U025R3C	0.028	5.9	1.375	3.125
8,500	CG852U025V4C	0.022	9.4	2.000	4.125
9,200	CG922U025R4C	0.022	7.5	1.375	4.125
10,000	CG103U025U3C	0.026	7.1	1.750	3.125
13,000	CG133U025V3C	0.024	8.0	2.000	3.125
20,000	CG203U025V4C	0.019	10.1	2.000	4.125
20,000	CG203U025X4C	0.019	12.9	3.000	4.125
32,000	CG323U025W4C	0.010	15.9	2.500	4.125
48,000	CG483U025X4C	0.005	25.2	3.000	4.125
35 WVdc (50 Vdc Surge)					
1,100	CG112U035R2C	0.063	3.4	1.375	2.125
2,100	CG212U035R3C	0.039	5.0	1.375	3.125
2,300	CG232U035R2C	0.051	3.8	1.375	2.125
4,300	CG432U035R3C	0.030	5.7	1.375	3.125
9,500	CG952U035V3C	0.025	7.9	2.000	3.125
11,000	CG113U035W4C	0.021	11.0	2.500	4.125
11,000	CG113U035U4C	0.020	9.1	1.750	4.125
14,000	CG143U035V4C	0.018	10.4	2.000	4.125
22,000	CG223U035W4C	0.011	15.2	2.500	4.125
33,000	CG333U035X4C	0.006	23.0	3.000	4.125
50 WVdc (75 Vdc Surge)					
800	CG801U050R2C	0.072	3.2	1.375	2.125
1,500	CG152U050R2C	0.058	3.5	1.375	2.125
1,500	CG152U050R3C	0.044	4.7	1.375	3.125
2,000	CG202U050R4C	0.033	6.1	1.375	4.125
2,500	CG252U050U3C	0.037	6.0	1.750	3.125
2,900	CG292U050R3C	0.036	5.2	1.375	3.125
3,300	CG332U050V3C	0.035	6.7	2.000	3.125
4,300	CG432U050R4C	0.026	6.9	1.375	4.125
4,500	CG452U050V4C	0.026	8.6	2.000	4.125
5,000	CG502U050U3C	0.029	6.7	1.750	3.125
6,500	CG652U050V3C	0.017	9.6	2.000	3.125
7,300	CG732U050W4C	0.023	10.5	2.500	4.125
7,400	CG742U050U4C	0.022	8.7	1.750	4.125
9,500	CG952U050V4C	0.013	12.2	2.000	4.125
10,000	CG103U050X4C	0.013	15.6	3.000	4.125
15,000	CG153U050W4C	0.009	16.8	2.500	4.125
16,500	CG1652U050X5L	0.010	20.5	3.000	5.625
22,000	CG223U050X4C	0.006	22.5	3.000	4.125
33,000	CG333U050X5L	0.005	29.0	3.000	5.625
75 WVdc (100 Vdc Surge)					
600	CG601U075R2C	0.085	2.9	1.375	2.125
800	CG801U075R2C	0.072	3.2	1.375	2.125
1,000	CG102U075R3C	0.053	4.3	1.375	3.125
1,500	CG152U075R4C	0.037	5.8	1.375	4.125
1,500	CG152U075R3C	0.045	4.7	1.375	3.125
2,000	CG202U075U3C	0.039	5.8	1.750	3.125
2,500	CG252U075V3C	0.036	6.6	2.000	3.125
2,600	CG262U075U3C	0.035	6.1	1.750	3.125

Cap (µF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
75 WVdc (100 Vdc Surge)					
3,300	CG332U075V3C	0.022	8.4	2.000	3.125
3,450	CG3451U075V4C	0.027	8.5	2.000	4.125
4,900	CG492U075V4C	0.015	11.3	2.000	4.125
7,900	CG792U075W4C	0.012	14.5	2.500	4.125
8,200	CG822U075X4C	0.012	16.3	3.000	4.125
11,000	CG113U075X4C	0.009	18.8	3.000	4.125
12,500	CG1252U075X5L	0.009	21.8	3.000	5.625
100 WVdc (135 Vdc Surge)					
400	CG401U100R2C	0.180	2.0	1.375	2.125
1,000	CG102U100R4C	0.068	4.3	1.375	4.125
1,300	CG132U100U3C	0.066	4.5	1.750	3.125
1,700	CG172U100W4C	0.050	5.7	1.750	4.125
2,250	CG2251U100V4C	0.036	7.3	2.000	4.125
2,500	CG252U100V4C	0.030	8.0	2.000	4.125
3,600	CG362U100W4C	0.020	11.3	2.500	4.125
4,000	CG402U100W4C	0.019	11.5	2.500	4.125
150 WVdc (185 Vdc Surge)					
275	CG2750U150R2C	0.170	2.1	1.375	2.125
500	CG501U150R3C	0.103	3.1	1.375	3.125
1,550	CG1551U150V4C	0.052	6.1	2.000	4.125
2,500	CG252U150W4C	0.030	9.2	2.500	4.125
3,600	CG362U150X4C	0.022	9.4	3.000	4.125
5,600	CG562U150X3L	0.014	17.0	3.000	3.625
200 WVdc (250 Vdc Surge)					
180	CG181T200R2C	0.280	1.6	1.375	2.125
450	CG451T200R4C	0.120	3.2	1.375	4.125
550	CG551T200U3C	0.150	3.0	1.750	3.125
750	CG751T200V3C	0.102	3.9	2.000	3.125
1,000	CG102T200V4C	0.085	4.8	2.000	4.125
1,650	CG1651T200W4C	0.050	7.8	2.500	4.125
2,450	CG2451T200X4C	0.034	9.7	3.000	4.125
3,800	CG382T200X5L	0.023	13.2	3.000	5.625
250 WVdc (300 Vdc Surge)					
140	CG141T250R2C	0.310	1.5	1.375	2.125
375	CG3750T250R4C	0.130	3.1	1.375	4.125
600	CG601T250V3C	0.091	4.1	2.000	3.125
800	CG801T250V4C	0.072	4.6	2.000	4.125
3,000	CG302T250X5L	0.020	14.2	3.000	5.625
300 WVdc (350 Vdc Surge)					
525	CG5250T300V3C	0.095	4.0	2.000	3.125
350 WVdc (400 Vdc Surge)					
100	CG101T350R2C	0.720	1.0	1.375	2.125
180	CG181T350R3C	0.500	1.4	1.375	3.125
250	CG251T350R4C	0.290	2.1	1.375	4.125
400	CG401T350V3C	0.260	2.4	2.000	3.125
550	CG551T350V4C	0.180	3.3	2.000	4.125
2,000	CG202T350X5L	0.061	8.1	3.000	5.625
400 WVdc (475 Vdc Surge)					
325	CG3250T400V4C	0.220	3.0	2.000	4.125
450 WVdc (525 Vdc Surge)					
40	CG400T450R2C	3.240	0.5	1.375	2.125
110	CG111T450R4C	1.220	1.0	1.375	4.125
240	CG241T450V4C	0.330	2.4	2.000	4.125

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

Specifications

Capacitance Range:	350 to 22,000 µF
Voltage Range:	250 to 500 WVdc
Capacitance Tolerance:	−10% +50%
Operating Temperature:	−40 to +85 °C
Ripple Current Multipliers:	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 Voltage	Frequency / Ripple Multiplier				
	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
250 to 450	1.000	1.080	1.113	1.175	1.230

DC Leakage Current: $I = .006 \sqrt{CV}$ after 5 minutes
Not to exceed 6.0 mA
C = Capacitance in µF
V = Rated Voltage
I = Leakage current in mA

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

Cap (μ F)	Catalog	Typical ESR		Max Ripple		Dia.	Length
	Part Number	120 Hz (Ω)	20 kHz (Ω)	120 Hz (A) RMS	20 kHz (A) RMS		
250 WVdc (300 Vdc 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

Cap (μF)	Catalog Part Number	Typical ESR		Max Ripple		Dia.	Length
		120 Hz	20 kHz	120 Hz	20 kHz		
		(Ω)	(Ω)	(A) RMS	(A) RMS		
250 WVdc (300 Vdc Surge)							
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

Type CGH Inverter Grade Screw Terminal Aluminum Electrolytic Ratings

Cap Part Number (µF)	Catalog Part Number	Typical ESR		Max Ripple		Dia. (In.)	Length (In.)
		120 Hz (Ω)	20 kHz (Ω)	120 Hz (A) RMS	20 kHz (A) RMS		
350 WVdc (400 Vdc 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	CGH242T350V4L	58.8	37.6	6.0	7.5	2.0	4.625
2,700	CGH272T350W3L	54.3	34.8	6.5	8.1	2.5	3.625
2,900	CGH292T350W3L	53.1	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	8.1	10.1	3.0	3.625
4,100	CGH412T350W4L	38.6	24.7	8.6	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	2.5	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 Vdc 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

Cap (μF)	Catalog	Typical ESR		Max Ripple		Dia.	Length
	Part Number	120 Hz (Ω)	20 kHz (Ω)	120 Hz (A) RMS	20 kHz (A) RMS		
450 WVdc (525 Vdc Surge)							
3,100	CGH312T450W5L	31.7	20.3	10.1	12.6	2.5	5.625
3,600	CGH362T450X4L	32.6	20.9	10.3	12.9	3	4.625
4,600	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 WVdc (550 Vdc Surge)							
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
1800	CGH182T500W4 C	142.0	126.0	4.2	4.7	2.5	4.125
2100	CGH212T500W4L	121.0	108.0	4.8	5.3	2.5	4.625
2200	CGH222T500X3L	124.0	111.0	4.8	5.4	3.0	3.625
2400	CGH242T500W5 C	106.0	99.1	5.3	6.0	2.5	5.125
2700	CGH272T500W5L	93.9	83.5	5.9	6.6	2.5	5.625
2700	CGH272T500X4 C	103.0	91.8	5.6	6.3	3.0	4.125
3100	CGH312T500X4L	87.4	78.4	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	7.7	8.6	3.0	5.625
6900	CGH692T500X8L	41.0	36.9	11.9	13.2	3.0	8.625

Type CGO Ultra Low ESR Screw Terminal Aluminum Electrolytic

Extremely Low ESR, Low Voltage, Screw Terminal Capacitors



Type CGO low voltage, low ESR, screw terminal aluminum electrolytic capacitors have extremely low ESR and are suitable for output filtering in switch mode power supply applications.

Highlights

- Extremely low ESR
- Low voltage
- Screw Terminal
- 35 mm diameter

Specifications

Capacitance Range:	2,800 to 45,000 μ F
Voltage Range:	5 to 55 WVdc
Capacitance Tolerance:	$\pm 20\%$
Operating Temperature:	-40 to $+85$ $^{\circ}$ C
Ripple Current Multipliers:	The maximum ripple current at 85 $^{\circ}$ C and 20 kHz for CGO capacitors is shown in the standard Ratings Tables. Maximum ripple current may be adjusted by the multipliers in the tables below.

Ambient Temperature / Ripple Multiplier

+35 $^{\circ}$C	+45 $^{\circ}$C	+55 $^{\circ}$C	+65 $^{\circ}$C	+75 $^{\circ}$C	+85 $^{\circ}$C
2.15	1.93	1.73	1.50	1.30	1.00

Rated Voltage	Frequency / Ripple Multiplier				
	120 Hz	400 Hz	1000 Hz	2500 Hz	10 kHz
5 to 55	.84	.85	.86	.87	.95

DC Leakage Current: $I = .0015 \sqrt{CV}$ after 5 minutes
C = Capacitance in μ F
V = Rated Voltage
I = Leakage current in mA

QA Stability Test: Apply WVdc for 1000 h @ 85 $^{\circ}$ C
Capacitance change $\leq 15\%$ from initial limits
DC leakage current meets initial limits
ESR $\leq 175\%$ of initial measured value

Type CGO Ultra Low ESR Screw Terminal Aluminum Electrolytic

Ratings

Cap (μF)	Catalog Part Number	Typical ESR		Max Ripple	Dia. (In.)	Length (In.)
		120 Hz (Ω)	20 kHz (Ω)	20 kHz (A) RMS		
5 WVdc (6 Vdc Surge)						
18000	CGO183M005L	0.016	0.009	9.8	1.375	2.125
7.5 WVdc (9 Vdc Surge)						
15000	CGO153M7R5L	.0158	0.010	9.4	1.375	2.125
21000	CGO213M7R5L	0.013	0.008	10.9	1.375	2.625
27000	CGO273M7R5L	0.011	0.007	12.7	1.375	3.125
33000	CGO333M7R5L	0.009	0.006	14.2	1.375	3.625
39000	CGO393M7R5L	0.009	0.006	15.5	1.375	4.125
45000	CGO453M7R5L	0.008	0.005	17.5	1.375	4.625
10 WVdc (12 Vdc Surge)						
14000	CGO143M010L	0.018	0.010	9.3	1.375	2.125
19000	CGO193M010L	0.013	0.008	10.9	1.375	2.625
16 WVdc (18 Vdc Surge)						
10000	CGO103M016L	.0167	0.010	9.3	1.375	2.125
14000	CGO143M016L	0.008	0.006	10.9	1.375	2.625
18000	CGO183M016L	0.011	0.007	12.6	1.375	3.125
22000	CGO223M016L	0.010	0.006	14.2	1.375	3.625
20 WVdc (22 Vdc Surge)						
12000	CGO123M020L	.0142	0.009	10.8	1.375	2.625
16000	CGO163M020L	0.012	0.007	12.6	1.375	3.125
20000	CGO203M020L	0.010	0.007	14.1	1.375	3.625
22000	CGO223M020L	0.009	0.006	15.4	1.375	4.125
27000	CGO273M020L	0.008	0.005	17.4	1.375	4.625
34000	CGO343M020L	0.007	0.005	19.6	1.375	5.625

Cap Cap (μF)	Catalog Part Number	Typical ESR		Max Ripple	Dia. (In.)	Length (In.)
		120 Hz (Ω)	20 kHz (Ω)	20 kHz (A) RMS		
28 WVdc (32 Vdc Surge)						
6300	CGO632M028L	0.021	0.012	8.3	1.375	2.125
8800	CGO882M028L	0.017	0.010	9.9	1.375	2.625
8900	CGO892M028L	0.017	0.010	10.1	1.375	2.625
14000	CGO143M028L	0.012	0.008	13.1	1.375	3.625
35 WVdc (40 Vdc Surge)						
4,500	CGO452M035L	0.024	0.012	8.2	1.375	2.125
6300	CGO632M035L	0.019	0.010	9.8	1.375	2.625
8100	CGO812M035L	0.015	0.009	11.5	1.375	3.125
10000	CGO103M035L	0.013	0.008	13.0	1.375	3.625
14000	CGO143M035L	0.010	0.006	16.1	1.375	4.625
45 WVdc (50 Vdc Surge)						
3800	CGO382M045L	0.032	0.018	8.1	1.375	2.125
4600	CGO462M045L	0.024	0.013	9.7	1.375	2.625
10000	CGO103M045L	0.022	0.013	15.6	1.375	4.625
55 WVdc (64 Vdc Surge)						
2800	CGO282M055L	.0302	0.015	7.5	1.375	2.125
3900	CGO392M055L	0.023	0.012	9.0	1.375	2.625
5000	CGO502M055L	0.019	0.010	10.6	1.375	3.125
10000	CGO103M055L	0.011	0.006	17.2	1.375	5.625

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

Specifications

Capacitance Range:	330 to 100,000 μ F
Voltage Range:	7.5 to 200 WVdc
Capacitance Tolerance:	-10% +75% (7.5 - 50 WVdc) -10% +50% (51 - 200 WVdc)
Operating Temperature:	-40 °C to +105 °C
Ripple Current Multipliers:	Ambient Temperature

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 Voltage	Frequency / Ripple Multiplier				
	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: $I = 6 \times 10^{-6} CV$ after 5 minutes
Not to exceed 4.0 mA
C = Capacitance in μ F
V = Rated Voltage
I = Leakage current in mA

QA Stability Test: Apply WVdc for 2000 h @ 105 °C

- Capacitance change $\pm 15\%$ from initial limits
- DC leakage current meets initial limits
- ESR: $\leq 175\%$ of initial measured value

Ratings

Cap (μF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
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

Cap (μF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
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		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
16 WVdc (20 Vdc Surge)					
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 WVdc (30 Vdc 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 WVdc (45 Vdc 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 WVdc (60 Vdc Surge)					
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	Max ESR	120 Hz		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
50 WVdc (75 Vdc 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 WVdc (100 Vdc 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

Type CGS Computer Grade Aluminum Electrolytic Capacitor

High CV, Screw Terminal Capacitors



Type CGS screw terminal, computer grade aluminum electrolytic capacitors have a high CV rating and are suitable for use in most demanding applications requiring high current filtering or energy storage.

Highlights

- High CV rating
- High current filtering
- Screw terminal

Specifications

Capacitance Range: 75 to 1,500,000 μF

Voltage Range: 6.3 to 500 WVdc

Capacitance Tolerance: -10% +75% (6.3 - 150 WVdc)
-10% +50% (200 - 450 WVdc)

Operating Temperature: -40 °C to +85 °C

Ripple Current Multipliers: Ambient Temperature

+45 °C	+55 °C	+65 °C	+75 °C	+85 °C
2.24	2.00	1.73	1.41	1.00

Rated Voltage	Ripple Multiplier				
	60 Hz	120 Hz	300 Hz	1000 Hz	10 kHz
16 to 150	0.9	1.0	1.15	1.25	1.30
200 to 500	0.9	1.0	1.25	1.40	1.50

DC Leakage Current: $I = .006 \sqrt{CV}$

Not to exceed 6.0 mA max. after 5 minutes

C = Capacitance in μF

V = Rated Voltage

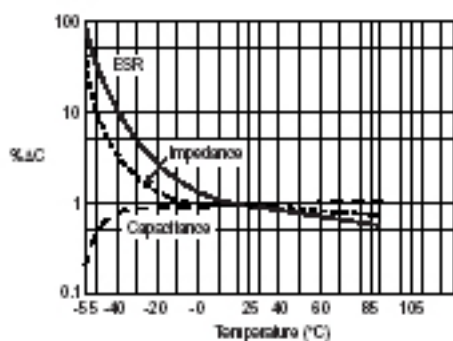
I = Leakage current in mA

QA Stability Test: Apply WVdc for 2000 h @ 85 °C

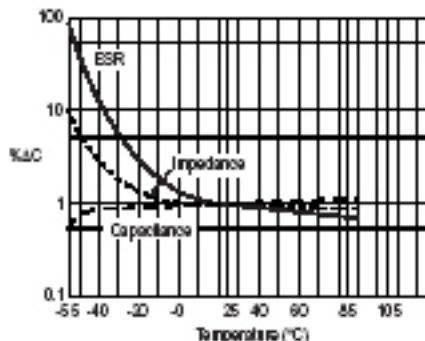
- Capacitance change $\pm 10\%$ from initial limits
- DC leakage current: 200% of limit
- ESR: 175% of limit

Typical Performance Curves

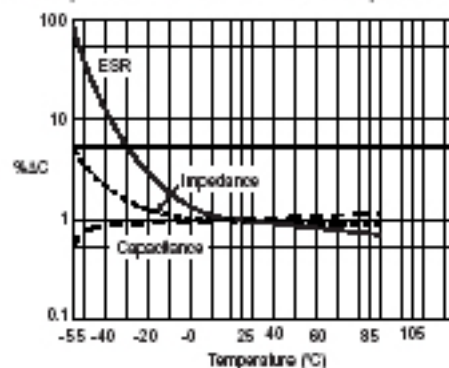
Temperature Characteristics - 100,000 μF 10 Vdc



Temperature Characteristics - 29,000 μF 50 Vdc



Temperature Characteristics - 4600 μF 100 Vdc



Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

Cap (µF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
6.3 WVdc (8 Vdc Surge)					
73,000	CGS733U6R3R2L	0.023	8.0	1.375	1.625
95,000	CGS953U6R3R3C	0.014	10.4	1.375	3.125
140,000	CGS144U6R3R4C	0.011	11.2	1.375	4.125
190,000	CGS194U6R3V3C	0.013	12.6	2.000	3.125
210,000	CGS214U6R3R5L	0.011	10.9	1.375	5.625
230,000	CGS234U6R3U4C	0.009	13.1	1.750	4.125
300,000	CGS304U6R3V4C	0.010	14.7	2.000	4.125
310,000	CGS314U6R3V5L	0.007	16.9	2.000	5.625
480,000	CGS484U6R3W4C	0.007	19.6	2.500	4.125
500,000	CGS504U6R3W5L	0.005	22.9	2.500	5.625
670,000	CGS674U6R3X4C	0.006	20.7	3.000	4.125
900,000	CGS904U6R3X5C	0.005	23.5	3.000	5.125
1,000,000	CGS105U6R3X5L	0.005	24.5	3.000	5.625
1,100,000	CGS115U6R3X5R	0.004	24.7	3.000	5.875
7.5 WVdc (9 Vdc Surge)					
49,000	CGS493U7R5R2C	0.030	6.7	1.375	2.125
71,000	CGS713U7R5R2L	0.023	7.9	1.375	2.625
92,000	CGS923U7R5R3C	0.019	8.8	1.375	3.125
140,000	CGS144U7R5R4C	0.014	10.3	1.375	4.125
190,000	CGS194U7R5V3C	0.013	12.5	2.000	3.125
200,000	CGS204U7R5R5L	0.012	10.8	1.375	5.625
220,000	CGS224U7R5U4C	0.010	13.1	1.750	4.125
290,000	CGS294U7R5V4C	0.010	14.6	2.000	4.125
440,000	CGS444U7R5V5L	0.007	16.8	2.000	5.625
470,000	CGS474U7R5W4C	0.007	19.5	2.500	4.125
650,000	CGS654U7R5W5L	0.005	24.4	3.000	4.125
710,000	CGS714U7R5W5L	0.005	22.8	2.500	5.625
870,000	CGS874U7R5X5C	0.005	23.4	3.000	5.125
980,000	CGS984U7R5X5L	0.005	24.4	3.000	5.625
1,000,000	CGS105U7R5X5R	0.004	24.7	3.000	5.875
10 WVdc (12 Vdc Surge)					
7,200	CGS722U010R2C	0.035	4.5	1.375	2.125
12,000	CGS123U010R2C	0.034	4.6	1.375	2.125
14,000	CGS143U010R2C	0.030	4.9	1.375	2.125
18,000	CGS183U010R2C	0.078	3.1	1.375	2.125
20,000	CGS203U010R2L	0.025	5.9	1.375	2.625
26,000	CGS263U010R3C	0.020	7.0	1.375	3.125
33,000	CGS333U010R3C	0.018	7.4	1.375	3.125
43,000	CGS433U010R2C	0.030	6.7	1.375	2.125
44,000	CGS443U010V2C	0.013	9.4	2.000	2.125
62,000	CGS623U010R2L	0.023	7.9	1.375	2.625
81,000	CGS813U010R3C	0.019	8.8	1.375	3.125
94,000	CGS943U010V4C	0.007	16.3	2.000	4.125
110,000	CGS114U010W3L	0.008	16.7	2.500	3.625
120,000	CGS124U010R4C	0.014	10.3	1.375	4.125
170,000	CGS174U010V3C	0.013	12.5	2.000	3.125
180,000	CGS184U010R5L	0.012	10.8	1.375	5.625
200,000	CGS204U010U4C	0.010	13.1	1.750	4.125
250,000	CGS254U010V4C	0.010	14.6	2.000	4.125
390,000	CGS394U010V5L	0.007	16.8	2.000	5.625
410,000	CGS414U010W4C	0.007	19.5	2.500	4.125
580,000	CGS584U010W5L	0.006	20.6	2.500	5.625
630,000	CGS634U010W5L	0.005	22.8	2.500	5.625
780,000	CGS784U010X5C	0.005	23.4	3.000	5.125
880,000	CGS884U010X5L	0.050	24.4	3.000	5.625
920,000	CGS924U010X5R	0.005	24.7	3.000	5.875
16 WVdc (20 Vdc Surge)					
5,500	CGS552U016R2C	0.037	4.4	1.375	2.125
8,900	CGS892U016R2C	0.034	4.6	1.375	2.125
10,000	CGS103U016R2C	0.033	4.7	1.375	2.125
10,000	CGS103U016R3C	0.024	6.4	1.375	3.125

RoHS Compliant

Cap	Catalog	Part Number	Typical	Max	Dia.	Length
			ESR	Ripple		
(μF)			120 Hz	+85 °C	(Inches)	(Inches)
			(Ω)	(A) RMS		
16 WVdc (20 Vdc Surge)						
12,000	CGS123U016R2C		0.031	4.8	1.375	2.125
15,000	CGS153U016R2L		0.026	5.6	1.375	2.625
15,000	CGS153U016R4C		0.061	4.5	1.375	4.125
17,000	CGS173U016R3C		0.022	6.7	1.375	3.125
19,000	CGS193U016R3C		0.021	6.8	1.375	3.125
21,000	CGS213U016R3L		0.037	5.5	1.375	3.625
22,000	CGS233U016V3C		0.027	7.6	2.000	3.125
24,000	CGS243U016R3C		0.032	5.6	1.375	3.125
25,000	CGS253U016R4C		0.016	8.8	1.375	4.125
25,000	CGS253U016V2C		0.031	6.1	2.000	2.125
33,000	CGS333U016R4C		0.020	7.9	1.375	4.125
33,000	CGS333U016V2C		0.028	6.5	2.000	2.125
34,000	CGS343U016R4C		0.020	9.8	1.375	4.125
34,000	CGS343U016V4C		0.016	8.8	2.000	4.125
35,000	CGS353U016R2C		0.030	6.7	1.375	2.125
38,000	CGS383U016R3C		0.019	9.4	1.375	3.125
38,000	CGS383U016V3C		0.021	8.6	2.000	3.125
49,000	CGS493U016R2L		0.023	7.9	1.375	2.625
50,000	CGS503U016V3C		0.011	11.7	2.000	3.125
55,000	CGS553U016R3L		0.015	10.2	1.375	3.625
55,000	CGS553U016V3L		0.018	9.6	2.000	3.625
62,000	CGS623U016R3C		0.019	8.8	1.375	3.125
66,000	CGS663U016R4C		0.012	11.6	1.375	4.125
66,000	CGS663U016V4C		0.017	10.8	2.000	4.125
68,000	CGS683U016V3C		0.017	9.5	2.000	3.125
68,000	CGS703U016V4C		0.008	15.2	2.000	4.125
77,000	CGS773U016V4L		0.015	11.8	2.000	4.625
80,000	CGS803U016X4C		0.009	18.9	3.000	4.125
83,000	CGS833U016V5L		0.015	12.9	2.000	5.625
90,000	CGS903U016R4C		0.014	10.3	1.375	4.125
91,000	CGS913U016V4C		0.009	14.7	2.000	4.125
100,000	CGS104U016X5C		0.007	22.5	3.000	5.125
110,000	CGS114U016W4C		0.010	16	2.500	4.125
120,000	CGS124U016V4C		0.007	20.1	3.000	3.625
130,000	CGS134U016R5L		0.010	12.6	1.375	5.625
130,000	CGS134U016V3C		0.011	12.5	2.000	3.125
130,000	CGS134U016W4L		0.009	17.6	2.500	4.625
150,000	CGS154U016X5L		0.007	19.3	3.000	4.125
160,000	CGS164U016U4C		0.010	13.1	1.750	4.125
170,000	CGS174U016V4C		0.004	23.5	2.000	4.125
180,000	CGS184U016X4L		0.006	24.3	3.000	4.625
190,000	CGS194U016V4C		0.007	19.5	2.000	4.125
210,000	CGS214U016X5R		0.005	29.2	3.000	5.875
220,000	CGS224U016X4C		0.005	25.2	3.000	4.125
260,000	CGS264U016V5L		0.003	29.8	2.000	5.625
290,000	CGS294U016V5L		0.005	21.1	2.000	5.625
310,000	CGS314U016W4C		0.005	22.7	2.500	4.125
470,000	CGS474U016W5L		0.004	30.4	2.500	5.625
620,000	CGS624U016X5C		0.004	32.3	3.000	5.125
640,000	CGS644U016X5L		0.002	44.9	3.000	5.625
640,000	CGS644UFX5L3PD		0.002	30.0	3.000	5.625
700,000	CGS704U016X5L		0.003	35.0	3.000	5.625
740,000	CGS744U016X5R		0.003	35.8	3.000	5.875
980,000	CGS984U016X8L		0.007	23.8	3.000	8.625
20 WVdc (22 Vdc Surge)						
250,000	CGS254U020X3L		0.006	29.0	3.000	3.625
500,000	CGS505U020X5L		0.004	37.0	3.000	5.625
1,000,000	CGS105UGX8L6PD		0.003	41.0	3.000	8.625
1,000,000	CGS105UGX8L6PH		0.003	41.0	3.000	8.625
1,000,000	CGS106U020X5R		0.003	40.0	3.000	5.875
1,500,000	CGS155U020X8L		0.003	41.0	3.000	8.625

Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

Cap (µF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
25 WVdc (30 Vdc Surge)					
3,000	CGS302U025R2C	0.235	1.8	1.375	2.125
4,700	CGS472U025R2C	0.101	2.7	1.375	2.125
5,600	CGS562U025R3C	0.026	6.1	1.375	3.125
6,000	CGS602U025R2C	0.035	4.5	1.375	2.125
6,800	CGS682U025R2C	0.096	2.8	1.375	2.125
8,200	CGS822U025R4C	0.019	8.1	1.375	4.125
8,900	CGS892U025R3C	0.024	6.4	1.375	3.125
10,000	CGS103U025R3C	0.024	6.4	1.375	3.125
12,000	CGS123U025R3C	0.024	8.1	2.000	3.125
12,000	CGS123U025V3C	0.023	6.6	1.375	3.125
13,000	CGS133U025R4C	0.082	3.9	1.375	4.125
14,000	CGS143U025U3C	0.046	5.3	1.750	3.125
14,000	CGS143U025V2C	0.037	5.6	2.000	2.125
16,000	CGS163U025R4C	0.017	8.5	1.375	4.125
18,000	CGS183U025R4C	0.017	8.6	1.375	4.125
18,000	CGS183U025V4C	0.052	6.1	2.000	4.125
20,000	CGS203U025R3C	0.023	6.5	1.375	3.125
20,000	CGS203U025R5C	0.014	10.3	1.375	5.125
20,000	CGS203U025V3C	0.024	8.0	2.000	3.125
22,000	CGS223U025R2C	0.032	6.4	1.375	2.125
22,000	CGS223U025V2C	0.043	5.2	2.000	2.125
28,000	CGS283U025V3C	0.028	7.5	2.000	3.125
29,000	CGS293U025V4C	0.018	10.5	2.000	4.125
30,000	CGS303U025W3C	0.029	8.4	2.500	3.125
31,000	CGS313U025R2L	0.024	7.6	1.375	2.625
32,000	CGS323U025V4C	0.018	10.3	2.000	4.125
33,000	CGS333U025V3C	0.018	9.3	2.000	3.125
40,000	CGS403U025R3C	0.020	8.4	1.375	3.125
41,000	CGS413U025V4C	0.020	9.8	2.000	4.125
43,000	CGS433U025R4C	0.022	8.5	1.375	4.125
43,000	CGS433U025X4C	0.021	12.2	3.000	4.125
47,000	CGS473U025V4C	0.022	9.5	2.000	4.125
50,000	CGS503U025V5L	0.018	11.7	2.000	5.625
50,000	CGS503U025W3L	0.010	14.9	2.500	3.625
57,000	CGS573U025X5C	0.017	14.6	3.000	5.125
58,000	CGS583U025R4C	0.014	10.0	1.375	4.125
65,000	CGS653U025W4C	0.009	16.5	2.500	4.125
68,000	CGS683U025V4C	0.006	17.9	2.000	4.125
70,000	CGS703U025X4C	0.010	18.1	3.000	4.125
82,000	CGS823U025V3C	0.011	15.5	2.000	3.125
85,000	CGS853U025R5L	0.011	12.2	1.375	5.625
90,000	CGS903U025W5L	0.007	21.4	2.500	5.625
92,000	CGS923U025X5C	0.008	21.6	3.000	5.125
95,000	CGS953U025X4C	0.011	16.9	3.000	4.125
100,000	CGS104U025U4C	0.010	12.7	1.750	4.125
100,000	CGS104U025V5L	0.005	22.8	2.000	5.625
100,000	CGS104U025X3L	0.011	16.0	3.000	3.625
110,000	CGS114U025X5C	0.008	20.7	3.000	5.125
110,000	CGS114U025X5L	0.009	20.9	3.000	5.625
120,000	CGS124U025V4C	0.008	15.5	2.000	4.125
120,000	CGS124U025X4C	0.010	17.9	3.000	4.125
120,000	CGS124U050X5L	0.007	21.6	3.000	5.625
180,000	CGS184U025X4C	0.004	30.3	3.000	4.125
190,000	CGS194U025V5L	0.006	20.4	2.000	5.625
200,000	CGS204U025W4C	0.005	22.0	2.500	4.125
204,000	CGS2043U025X8L	0.006	29.9	3.000	8.625
270,000	CGS274U025X5L	0.003	36.6	3.000	5.625
270,000	CGS274UHX5L3PD	0.003	30.0	3.000	5.625
300,000	CGS304U025W5L	0.005	26.2	2.500	5.625
310,000	CGS314U025W5L	0.004	29.6	2.500	5.625
400,000	CGS404U025X5C	0.004	31.6	3.000	5.125
450,000	CGS454U025X5L	0.003	34.3	3.000	5.625
480,000	CGS484U025X5R	0.003	35.0	3.000	5.875
740,000	CGS744U025X8L	0.002	48.3	3.000	8.625

		Typical	Max Ripple		
Catalog		ESR	120 Hz		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
30 WVdc (40 Vdc Surge)					
4,500	CGS452U030R2C	0.037	4.4	1.375	2.125
5,000	CGS502U030R2C	0.037	4.5	1.375	2.125
8,000	CGS802U030R3C	0.024	6.4	1.375	3.125
9,200	CGS922U030R3C	0.024	6.4	1.375	3.125
12,000	CGS123U030R4C	0.018	8.4	1.375	4.125
13,000	CGS133U030R4C	0.018	8.4	1.375	4.125
15,000	CGS153U030R4L	0.016	9.3	1.375	4.625
20,000	CGS203U030R5L	0.013	11.0	1.375	5.625
30,000	CGS303U030V4C	0.019	10.0	2.000	4.125
33,000	CGS333U030V4C	0.020	9.8	2.000	4.125
44,000	CGS443U030W3C	0.015	11.7	2.500	3.125
50,000	CGS503U030V5L	0.016	12.7	2.000	5.625
55,000	CGS553U030W4C	0.009	16.3	2.500	4.125
78,000	CGS783U030X4C	0.011	16.8	3.000	4.125
100,000	CGS104U030X5L	0.008	22.4	3.000	5.625
35 WVdc (45 Vdc Surge)					
4,400	CGS442U035R2C	0.145	2.2	1.375	2.125
8,200	CGS822U035R3C	0.024	6.4	1.375	3.125
10,000	CGS103U035V2C	0.038	5.5	2.000	2.125
12,000	CGS123U035R4C	0.018	8.4	1.375	4.125
21,000	CGS213U035R3C	0.023	6.4	1.375	3.125
21,000	CGS213U035V3C	0.029	7.3	2.000	3.125
30,000	CGS303U035W3C	0.028	8.6	2.500	3.125
31,000	CGS313U035V4C	0.021	9.6	2.000	4.125
60,000	CGS603U035X5C	0.010	19.7	3.000	5.125
70,000	CGS703U035X4C	0.012	16.6	3.000	4.125
40 WVdc (50 Vdc Surge)					
2,200	CGS222U040R2C	0.044	4.1	1.375	2.125
2,700	CGS272U040R2C	0.042	4.2	1.375	2.125
3,500	CGS352U040R2C	0.038	4.4	1.375	2.125
4,200	CGS422U040R3C	0.028	6.0	1.375	3.125
4,700	CGS472U040R2C	0.036	4.5	1.375	2.125
5,100	CGS512U040R3C	0.026	6.1	1.370	3.125
6,000	CGS602U040R3C	0.025	6.2	1.375	3.125
6,200	CGS622U040R4C	0.020	7.9	1.375	4.125
7,500	CGS752U040R4C	0.019	8.1	1.375	4.125
9,000	CGS902U040R4C	0.019	8.2	1.375	4.125
9,300	CGS932U040V3C	0.024	8.1	2.000	3.125
11,000	CGS113U040V3C	0.024	8.0	2.000	3.125
12,000	CGS123U040R4C	0.049	5.0	1.375	4.125
12,000	CGS123U040V2C	0.067	4.2	2.000	2.125
13,000	CGS133U040R2C	0.033	6.0	1.375	2.125
13,000	CGS133U040V4C	0.017	10.5	2.000	4.125
17,000	CGS173U040R3C	0.025	6.1	1.375	3.125
17,000	CGS173U040V3C	0.029	7.4	2.000	3.125
17,000	CGS173U040V4C	0.018	10.4	2.000	4.125
18,000	CGS183U040R2L	0.025	7.1	1.375	2.625
20,000	CGS203U040V5L	0.014	13.6	2.000	5.625
22,000	CGS223U040V3C	0.031	7.1	2.000	3.125
23,000	CGS233U040R3C	0.021	7.9	1.375	3.125
23,000	CGS233U040V4C	0.020	9.9	2.000	4.125
32,000	CGS323U040V4C	0.021	9.5	2.000	4.125
33,000	CGS333U040V4C	0.021	9.7	2.000	4.125
34,000	CGS343U040R4C	0.015	9.4	1.375	4.125
35,000	CGS353U040V5L	0.015	12.8	2.000	5.625
40,000	CGS403U040V3C	0.014	9.9	2.000	3.125
40,000	CGS403U040W4C	0.010	16.3	2.500	4.125
40,000	CGS403U040X4C	0.010	18.1	3.000	4.125
43,000	CGS433U040X5C	0.020	13.8	3.000	5.125
47,000	CGS473U040V3C	0.014	11.0	2.000	3.125
47,000	CGS473U040W4C	0.010	15.8	2.500	4.125

Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

Cap	Catalog	Typical Max Ripple		Dia.	Length
		ESR	120 Hz		
(μF)	Part Number	120 Hz	+85 °C		
(Ω)		(A) RMS	(Inches)	(Inches)	
40 WVdc (50 Vdc Surge)					
49,000	CGS493U040R5L	0.013	11.0	1.375	5.625
53,000	CGS533U040X5C	0.008	21.5	3.000	5.125
55,000	CGS553U040W5L	0.011	16.9	2.500	5.625
61,000	CGS613U040U4C	0.011	11.4	1.750	4.125
68,000	CGS683U040X4C	0.012	16.0	3.000	4.125
71,000	CGS713U040V4C	0.010	14.0	2.000	4.125
78,000	CGS783U040X6L	0.009	22.7	3.000	6.625
110,000	CGS114U040V5L	0.007	18.6	2.000	5.625
120,000	CGS124U040W4C	0.006	20.0	2.500	4.125
150,000	CGS154U040X5L	0.003	36.6	3.000	5.625
150,000	CGS154ULX5L3PD	0.003	30.0	3.000	5.625
180,000	CGS184U040W5L	0.005	27.0	2.500	5.625
230,000	CGS234U040X5C	0.004	29.5	3.000	5.125
260,000	CGS264U040X5L	0.004	32.1	3.000	5.625
280,000	CGS284U040X5R	0.004	32.7	3.000	5.875
430,000	CGS434U040X8L	0.003	45.6	3.000	8.625
50 WVdc (65 Vdc Surge)					
1,600	CGS162U050R2C	0.048	3.9	1.375	2.125
2,200	CGS222U050R2C	0.044	4.1	1.375	2.125
2,900	CGS292U050R3C	0.03	5.7	1.375	3.125
3,000	CGS302U050R2C	0.04	4.3	1.375	2.125
3,300	CGS332U050R2C	0.182	2.0	1.375	2.125
4,100	CGS412U050R3C	0.022	7.6	1.375	3.125
4,300	CGS432U050R4C	0.022	7.6	1.375	4.125
4,900	CGS492U050R3L	0.023	7.0	1.375	3.625
5,000	CGS502U050R3C	0.026	6.1	1.375	3.125
5,700	CGS572U050R3C	0.096	3.2	1.375	3.125
6,100	CGS612U050R4C	0.02	7.9	1.375	4.125
6,500	CGS652U050V3C	0.025	7.9	2.000	3.125
6,700	CGS672U050R3L	0.022	7.2	1.375	3.625
6,800	CGS682U050R3C	0.024	6.4	1.375	3.125
7,500	CGS752U050R4C	0.019	8.1	1.375	4.125
8,000	CGS802U050V2C	0.043	5.2	2.000	2.125
9,600	CGS962U050R2C	0.036	5.6	1.375	2.125
9,600	CGS962U050V4C	0.018	10.3	2.000	4.125
10,000	CGS103U050R4C	0.017	8.5	1.375	4.125
10,000	CGS103U050V2C	0.049	4.9	2.000	2.125
12,000	CGS123U050R5L	0.014	10.7	1.375	5.625
13,000	CGS133U050R2L	0.027	6.7	1.375	2.625
13,000	CGS133U050R3C	0.031	6.2	1.375	3.125
13,000	CGS133U050V3C	0.029	7.3	2.000	3.125
14,000	CGS143U050V5L	0.031	7.1	2.000	5.625
14,500	CGS1452U050V3C	0.022	7.3	2.000	3.125
15,000	CGS153U050V4C	0.019	10.0	2.000	4.125
17,000	CGS173U050R3C	0.022	7.5	1.375	3.125
18,000	CGS183U050V3C	0.034	6.8	2.000	3.125
20,000	CGS203U050R4C	0.019	8.2	1.375	4.125
20,000	CGS203U050V4C	0.021	9.5	2.000	4.125
20,000	CGS203U050V5L	0.014	13.2	2.000	5.625
24,000	CGS243U050W3C	0.014	12.1	2.500	3.125
25,000	CGS253U050R4C	0.016	8.9	1.375	4.125
25,000	CGS253U050U4C	0.021	9.8	1.750	4.125
25,000	CGS253U050W4C	0.024	10.2	2.500	4.125
27,000	CGS273U050V4C	0.022	9.3	2.000	4.125
28,000	CGS283U050V5C	0.018	11.4	2.000	5.125
30,000	CGS303U050V5L	0.016	12.4	2.000	5.625
31,000	CGS313U050W4C	0.028	9.6	2.500	4.125
33,000	CGS333U050W4C	0.025	10.0	2.500	4.125
35,000	CGS353U050V3C	0.016	10.5	2.000	3.125
37,000	CGS373U050R5L	0.012	11.8	1.375	5.625
41,000	CGS413U050X4L	0.009	19.2	3.000	4.625
43,000	CGS433U050X5C	0.023	12.7	3.000	5.125
45,000	CGS453U050U4C	0.012	11.0	1.750	4.125

		Typical	Max Ripple		
	Catalog	ESR	120 Hz		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
50 WVdc (65 Vdc Surge)					
48,000	CGS483U050X4C	0.012	16.2	3.0	4.125
50,000	CGS503U050W5L	0.008	20.4	2.5	5.625
51,000	CGS513U050X5R	0.010	18.4	3.0	5.875
53,000	CGS533U050V4C	0.011	13.3	2.0	4.125
56,000	CGS563U050X3L	0.005	23.1	3.0	3.625
60,000	CGS603U050X5C	0.010	19.8	3.0	5.125
68,000	CGS683U050X4C	0.017	15.0	3.0	4.125
70,000	CGS703U050X5L	0.016	15.7	3.0	5.625
79,000	CGS793U050V5L	0.008	17.7	2.0	5.625
82,000	CGS823U050X4C	0.004	29.2	3.0	4.125
87,000	CGS873U050W4C	0.007	19.1	2.5	4.125
100,000	CGS104U050X8L	0.007	29.3	3.0	8.625
120,000	CGS124U050X5L	0.003	36.6	3.0	5.625
120,000	CGS124UNX5L3PD	0.003	30.0	3.0	5.625
130,000	CGS134U050W5L	0.005	25.8	2.5	5.625
190,000	CGS194U050X5L	0.004	31.0	3.0	5.625
210,000	CGS214U050X5R	0.004	31.6	3.0	5.875
320,000	CGS324U050X8L	0.006	30.7	3.0	8.625
63 WVdc (75 Vdc Surge)					
6,100	CGS612U063R2C	0.043	5.0	1.375	2.125
8,900	CGS892U063R2L	0.032	6.0	1.375	2.625
12,000	CGS123U063R3C	0.027	6.7	1.375	3.125
14,000	CGS143U063R4C	0.019	8.1	1.375	4.125
19,000	CGS193U063V3C	0.021	9.2	2.000	3.125
20,000	CGS203U063R5L	0.015	9.3	1.375	5.625
28,000	CGS284U063U4C	0.014	10.3	1.750	4.125
36,000	CGS363U063V4C	0.014	11.5	2.000	4.125
55,000	CGS553U063V5L	0.010	14.6	2.000	5.625
60,000	CGS603U063W4C	0.010	15.6	2.500	4.125
89,000	CGS893U063W5L	0.010	18.0	3.000	4.125
91,000	CGS913U063W5L	0.007	20.0	2.500	5.625
120,000	CGS124U063X5C	0.007	21.3	3.000	5.125
140,000	CGS144U063X5L	0.007	23.2	3.000	5.625
150,000	CGS154U063X5R	0.007	23.7	3.000	5.875
210,000	CGS214U063X8L	0.012	21.3	3.000	8.625
75 WVdc (95 Vdc Surge)					
820	CGS821U075R2C	0.591	1.1	1.375	2.125
1,500	CGS152U075R3C	0.041	4.9	1.375	3.125
2,100	CGS212U075R3C	0.036	5.3	1.375	3.125
2,200	CGS222U075R2C	0.041	4.2	1.375	2.125
2,300	CGS232U075R4C	0.028	6.6	1.375	4.125
2,500	CGS252U075R4C	0.096	3.2	1.375	4.125
2,900	CGS292U075R3C	0.032	5.6	1.375	3.125
3,300	CGS332U075R3C	0.120	2.9	1.375	3.125
4,200	CGS422U075R4C	0.023	7.4	1.375	4.125
4,800	CGS482U075R3C	0.031	6.7	1.375	3.125
4,800	CGS482U075V3C	0.030	7.2	2.000	3.125
5,000	CGS502U075R2C	0.058	4.4	1.375	2.125
5,600	CGS562U075R4C	0.021	7.8	1.375	4.125
6,300	CGS632U075R5L	0.017	9.8	1.375	5.625
7,000	CGS702U075R2L	0.044	5.3	1.375	2.625
7,100	CGS712U075V4C	0.022	9.5	2.000	4.125
7,300	CGS732U075V3C	0.078	4.5	2.000	3.125
7,500	CGS752U075V5L	0.017	12.3	2.000	5.625
9,000	CGS902U075R3C	0.036	5.9	1.375	3.125
10,000	CGS103U075R3C	0.029	5.8	1.375	3.125
10,000	CGS103U075V3C	0.041	6.2	2.000	3.125
10,000	CGS103U075V4C	0.024	9.0	2.000	4.125
12,000	CGS123U075R4C	0.021	7.6	1.375	4.125
12,000	CGS123U075V4C	0.026	8.7	2.000	4.125
13,000	CGS133U075R4C	0.026	7.2	1.375	4.125

Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

Cap	Catalog Part Number	Typical Max Ripple		Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
75 WVdc (150 Vdc Surge)					
15,000	CGS153U075V5L	0.018	11.9	2.000	5.625
17,000	CGS173U075W4C	0.033	8.8	2.500	4.125
17,000	CGS173U075X4C	0.033	9.8	3.000	4.125
18,000	CGS183U075V3C	0.023	8.9	2.000	3.125
18,000	CGS183U075V4C	0.009	14.5	2.000	4.125
19,000	CGS193U075R5L	0.019	7.8	1.375	5.625
23,000	CGS233U075U4C	0.017	9.8	1.750	4.125
25,000	CGS253U075X4C	0.039	9.0	3.000	4.125
25,000	CGS253U075W5L	0.024	11.7	2.500	5.625
25,000	CGS253U075X4C	0.014	15.0	3.000	4.125
26,000	CGS263U075V4C	0.028	10.3	2.000	4.125
26,000	CGS263U075X5R	0.037	10.6	3.000	5.875
27,000	CGS273U075V4C	0.016	11.0	2.000	4.125
27,000	CGS273U075X3L	0.019	12.5	3.000	3.625
33,000	CGS333U075X4C	0.019	12.7	3.000	4.125
37,000	CGS373U075V5L	0.011	16.4	2.000	5.625
37,000	CGS373U075X5L	0.010	19.7	3.000	5.625
41,000	CGS413U075V5L	0.011	14.6	2.000	5.625
45,000	CGS453U075W4C	0.012	14.7	2.500	4.125
55,000	CGS553U075X8L	0.008	27.4	3.000	8.625
68,000	CGS683U075W5L	0.008	20.0	2.500	5.625
68,000	CGS683U075X5L	0.005	30.0	3.000	5.625
90,000	CGS903U075X5C	0.008	21.3	3.000	5.125
100,000	CGS104U075X5L	0.007	23.2	3.000	5.625
110,000	CGS114U075X5R	0.007	23.7	3.000	5.875
140,000	CGS144U075X8L	0.012	21.3	3.000	8.625
100 WVdc (125 Vdc Surge)					
850	CGS851U100R2C	0.120	2.5	1.375	2.125
1,200	CGS122U100R3C	0.062	3.5	1.375	3.125
1,700	CGS172U100R3C	0.069	3.8	1.375	3.125
2,400	CGS242U100R4C	0.050	5.0	1.375	4.125
3,100	CGS312U100R2C	0.068	4.0	1.375	2.125
3,100	CGS312U100R5C	0.036	6.4	1.375	5.125
4,000	CGS402U100R4C	0.031	6.2	1.375	4.125
4,000	CGS402U100V4C	0.036	7.3	2.000	4.125
4,500	CGS452U100R2L	0.051	4.8	1.375	2.625
5,900	CGS592U100R3C	0.042	5.4	1.375	3.125
6,000	CGS602U100V4C	0.033	7.6	2.000	4.125
8,600	CGS862U100R4C	0.029	6.5	1.375	4.125
9,000	CGS902U100V5L	0.024	10.2	2.000	5.625
10,000	CGS103U100W4C	0.040	8.0	2.500	4.125
12,000	CGS123U100V3C	0.026	7.7	2.000	3.125
13,000	CGS133U100R5L	0.024	7.2	1.375	5.625
15,000	CGS153U100V4C	0.036	7.3	2.000	4.125
15,000	CGS153U100W5L	0.043	8.6	2.500	5.625
15,000	CGS153U100X4C	0.051	7.9	3.000	4.125
16,000	CGS163U100U4C	0.019	8.9	1.750	4.125
18,000	CGS183U100V4C	0.018	10.5	2.000	4.125
28,000	CGS283U100V5L	0.012	14.0	2.000	4.625
30,000	CGS303U100W4C	0.011	15.2	2.500	4.125
33,000	CGS333U100X8L	0.009	25.0	3.000	8.625
39,000	CGS393U100X5R	0.011	15.8	3.000	5.875
45,000	CGS453U100W5L	0.010	18.1	3.000	4.125
46,000	CGS463U100W5L	0.008	20.1	2.500	5.625
60,000	CGS603U100X5C	0.009	20.6	3.000	5.125
68,000	CGS683U100X5L	0.008	22.5	3.000	5.625
74,000	CGS743U100X5R	0.007	23.3	3.000	5.875
96,000	CGS963U100X8L	0.013	20.9	3.000	8.625
150 WVdc (175 Vdc Surge)					
400	CGS401U150R2C	0.137	2.3	1.375	2.125
720	CGS721U150R3C	0.063	3.5	1.375	3.125

Cap (µF)	Catalog Part Number	Typical Max Ripple		Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
150 WVdc (175 Vdc Surge)					
950	CGS951U150R3C	0.087	3.4	1.375	3.125
1,100	CGS112U150R2C	0.102	3.2	1.375	2.125
1,100	CGS112U150R4C	0.064	4.4	1.375	4.125
1,600	CGS162U150R2L	0.071	3.8	1.375	2.625
2,100	CGS212U150R3C	0.074	4.3	1.375	3.125
2,400	CGS242U150V3C	0.117	3.7	2.000	3.125
3,100	CGS312U150R4C	0.038	5.8	1.375	4.125
3,300	CGS332U150V5C	0.032	8.4	2.000	5.125
3,500	CGS352U150V5L	0.031	11.4	2.000	5.625
4,400	CGS442U150V3C	0.032	7.0	2.000	3.125
4,700	CGS472U150R5L	0.026	7.9	1.375	5.625
4,800	CGS482U150W4L	0.030	9.5	2.500	4.625
5,300	CGS532U150U4C	0.023	8.3	1.750	4.125
5,700	CGS572U150X4C	0.037	9.3	3.000	4.125
6,200	CGS622U150W5L	0.025	11.4	2.500	5.625
6,700	CGS672U150U4C	0.022	9.4	2.000	4.125
7,700	CGS772U150X5C	0.029	11.3	3.000	5.125
8,700	CGS872U150X5R	0.027	12.5	3.000	5.875
10,000	CGS103U150V5L	0.015	12.7	2.000	5.625
10,000	CGS103U150X5C	0.034	10.4	3.000	5.125
11,000	CGS113U150W4C	0.017	12.1	2.500	4.125
12,000	CGS123U150V5L	0.014	16.5	2.000	5.625
12,000	CGS123U150X5L	0.013	17.8	3.000	5.625
17,000	CGS173U150W5L	0.020	12.7	2.500	5.625
22,000	CGS223U150X5C	0.015	15.6	3.000	5.125
25,000	CGS253U150X5L	0.012	18.4	3.000	5.625
26,000	CGS263U150X5R	0.011	19.1	3.000	5.875
43,000	CGS433U150X8L	0.014	19.9	3.000	8.625
200 WVdc (250 Vdc Surge)					
590	CGS591T200R3C	0.151	2.6	1.375	3.125
800	CGS801T200R2C	0.102	2.7	1.375	2.125
1,000	CGS102T200R4C	0.113	3.2	1.375	4.125
1,000	CGS102T200V2C	0.097	3.6	2.000	2.125
1,200	CGS122T200R2L	0.071	3.5	1.375	2.625
1,400	CGS142T200V3C	0.081	4.4	2.000	3.125
1,500	CGS152T200R3C	0.054	4.3	1.375	3.125
1,600	CGS162T200V3C	0.074	4.6	2.000	3.125
2,000	CGS202T200V4C	0.057	5.8	2.000	4.12
2,200	CGS222T200R4C	0.038	5.8	1.375	4.125
2,200	CGS222T200V4C	0.054	6.0	2.000	4.125
2,700	CGS272T200V4C	0.048	6.4	2.000	4.125
3,100	CGS312T200V3C	0.032	7.0	2.000	3.125
3,300	CGS332T200R5L	0.026	7.9	1.375	5.625
3,300	CGS332T200W4C	0.060	6.5	2.500	4.125
3,400	CGS342T200W4C	0.076	5.8	2.500	4.125
3,600	CGS362T200V4C	0.042	6.7	2.000	4.125
4,000	CGS402T200U4C	0.023	8.3	1.750	4.125
4,000	CGS402T200V3C	0.062	5.0	2.000	3.125
4,000	CGS402T200W4C	0.055	6.8	2.500	4.125
4,600	CGS462T200X4C	0.047	8.2	3.000	4.125
4,700	CGS472T200V4C	0.021	9.4	2.000	5.625
4,800	CGS482T200V4C	0.042	6.8	2.000	4.125
5,000	CGS502T200W5C	0.036	9.2	2.500	5.125
5,200	CGS522T200V5L	0.021	11.0	2.000	5.625
5,400	CGS542T200X4L	0.021	12.6	3.000	4.625
5,500	CGS552T200X4C	0.027	10.9	3.000	4.125
6,200	CGS622T200X4C	0.039	9.0	3.000	4.125
7,200	CGS722T200V5L	0.019	11.5	2.000	5.625
7,400	CGS742T200X5L	0.018	15.0	3.000	5.625
7,700	CGS772T200X5L	0.018	15.0	3.000	5.625
7,800	CGS782T200W4C	0.017	12.1	2.500	4.125
9,400	CGS942T200X4C	0.021	12.1	3.000	4.125
12,000	CGS123T200W5L	0.013	16.0	2.500	5.625

Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

Cap (µF)	Catalog Part Number	Typical		Max Ripple	
		ESR 120 Hz (Ω)	120 Hz +85 °C (A) RMS	Dia. (Inches)	Length (Inches)
200 WVdc (250 Vdc Surge)					
14,000	CGS143T200X5L	0.015	16.1	3	5.625
16,000	CGS163T200X5C	0.015	15.6	3	5.125
18,000	CGS183T200X5L	0.012	18.4	3	5.625
18,000	CGS183T200X5L	0.016	15.9	3	5.625
19,000	CGS193T200X5R	0.011	19.1	3	5.875
25,000	CGS253T200X8L	0.015	19.9	3	8.625
30,000	CGS303T200X8L	0.011	22.7	3	8.625
250 WVdc (300 Vdc Surge)					
200	CGS201T250R2C	0.241	1.7	1.375	2.125
250	CGS251T250R2C	0.278	1.6	1.375	2.125
470	CGS471T250R3C	0.439	1.5	1.375	3.125
550	CGS551T250R4C	0.098	3.6	1.375	4.125
620	CGS621T250R2C	0.137	2.3	1.375	2.125
720	CGS721T250R4C	0.110	3.4	1.375	4.125
900	CGS901T250R2L	0.095	3.0	1.375	2.625
1,000	CGS102T250R5L	0.078	4.6	1.375	5.625
1,200	CGS122T250R3C	0.073	3.7	1.375	3.125
1,200	CGS122T250V3C	0.080	4.4	2.000	3.125
1,700	CGS172T250R4C	0.050	5.0	1.375	4.125
1,700	CGS172T250V2L	0.070	4.4	2.000	2.625
1,700	CGS172T250V4C	0.057	5.8	2.000	4.125
1,900	CGS192T250V5L	0.105	4.9	2.000	5.625
1,900	CGS192T250W4C	0.078	6.6	2.500	4.125
2,500	CGS252T250V5L	0.041	7.8	2.000	5.625
2,600	CGS262T250R5L	0.035	6.9	1.375	5.625
2,800	CGS282T250V4C	0.046	6.5	2.000	4.125
2,900	CGS292T250V3L	0.041	6.5	2.000	3.625
2,900	CGS292T250W4L	0.043	8.0	2.500	4.625
2,900	CGS292T250X4C	0.050	8.0	3.000	4.125
3,100	CGS312T250U4C	0.030	7.3	1.750	4.125
3,700	CGS372T250V4C	0.027	8.4	2.000	4.125
4,100	CGS412T250V4L	0.029	8.5	2.000	4.625
4,100	CGS412T250V5L	0.021	10.7	2.000	5.625
4,200	CGS422T250W5L	0.023	11.9	2.500	5.625
5,600	CGS562T250V5L	0.019	11.3	2.000	5.625
6,000	CGS602T250V5L	0.022	10.1	2.000	5.625
6,000	CGS602T250W4C	0.022	10.6	2.500	4.125
6,000	CGS602T250X5L	0.047	9.2	3.000	5.625
7,200	CGS722T250X4C	0.023	11.7	3.000	4.125
7,400	CGS742T250X3L	0.026	10.5	3.000	3.625
9,000	CGS902T250W5L	0.016	10.4	2.500	5.625
9,200	CGS922T250W5L	0.015	14.6	2.500	5.625
10,000	CGS103T250X4L	0.020	13.0	3.000	4.625
10,000	CGS103T250X5L	0.016	15.6	3.000	5.625
12,000	CGS123T250X5C	0.017	14.6	3.000	5.125
13,000	CGS133T250X5L	0.017	14.0	3.000	5.625
14,000	CGS143T250X5L	0.013	17.3	3.000	5.625
15,000	CGS153T250X5R	0.013	17.9	3.000	5.875
19,000	CGS193T250X8L	0.016	18.8	3.000	8.625
22,000	CGS223T250X8L	0.010	23.8	3.000	8.625
300 WVdc (350 Vdc Surge)					
430	CGS431T300R2C	0.228	1.8	1.375	2.125
620	CGS621T300R2L	0.158	2.3	1.375	2.625
810	CGS811T300R3C	0.122	2.9	1.375	3.125
1,200	CGS122T300R4C	0.083	3.9	1.375	4.125
1,500	CGS152T300W4C	0.107	4.9	2.500	4.125
1,600	CGS162T300V3C	0.067	4.8	2.000	3.125
1,800	CGS182T300R5L	0.057	5.4	1.375	5.625
2,000	CGS202T300U4C	0.053	5.5	1.750	4.125
2,500	CGS252T300V4C	0.044	6.6	2.000	4.125
3,500	CGS352T300X5L	0.066	7.8	3.000	5.625

		Typical	Max Ripple		
	Catalog	ESR	120 Hz		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
300 WVdc (350 Vdc Surge)					
3,800	CGS382T300V5L	0.030	9.0	2.000	5.625
4,000	CGS402T300X5L	0.058	8.3	3.000	5.625
4,100	CGS412T300W4C	0.027	9.6	2.500	4.125
6,000	CGS602T300X8L	0.022	15.9	3.000	8.625
6,200	CGS622T300W5L	0.029	10.6	3.000	4.125
6,300	CGS632T300W5L	0.018	13.3	2.500	5.625
8,300	CGS832T300X5C	0.022	13.1	3.000	5.125
9,400	CGS942T300X5L	0.019	14.4	3.000	5.625
10,000	CGS103T300X5R	0.018	14.9	3.000	5.875
15,000	CGS153T300X8L	0.015	19.8	3.000	8.625
350 WVdc (400 Vdc Surge)					
130	CGS131T350R2C	0.683	1.0	1.375	2.125
250	CGS251T350R3C	0.478	1.4	1.375	3.125
330	CGS331T350R2C	0.297	1.6	1.375	2.125
380	CGS381T350R4C	0.318	2.0	1.375	4.125
480	CGS481T350R2L	0.206	2.0	1.375	2.625
620	CGS621T350R3C	0.158	2.5	1.375	3.125
650	CGS651T350V3C	0.212	2.7	2.000	3.125
800	CGS801T350V4C	0.170	3.4	2.000	4.125
920	CGS921T350R4C	0.108	3.4	1.375	4.125
1,000	CGS102T350R4C	0.111	3.3	1.375	4.125
1,000	CGS102T350V2L	0.145	3.0	2.000	2.625
1,000	CGS102T350V4C	0.140	3.7	2.000	4.125
1,300	CGS132T350V3C	0.085	4.3	2.000	3.125
1,300	CGS132T350V5L	0.108	4.8	2.000	5.625
1,400	CGS142T350R5L	0.074	4.7	1.375	5.625
1,500	CGS152T350U4C	0.068	4.9	1.750	4.125
1,500	CGS152T350W4C	0.123	4.5	2.500	4.125
1,600	CGS162T350V4C	0.072	5.2	2.000	4.125
1,900	CGS192T350V4C	0.056	5.9	2.000	4.125
2,100	CGS212T350X4C	0.067	5.4	3.000	4.125
2,200	CGS222T350W5L	0.063	7.2	2.500	5.625
2,400	CGS242T350V4L	0.061	5.8	2.000	4.625
2,400	CGS242T350V5L	0.040	7.9	2.000	5.625
2,700	CGS272T350W3L	0.058	6.3	2.000	3.625
2,900	CGS292T350V5L	0.037	8.0	2.000	5.625
3,000	CGS302T350X5R	0.048	9.3	3.000	5.875
3,200	CGS322T350W4C	0.039	8.0	2.500	4.125
3,300	CGS332T350V5L	0.038	8.1	2.000	5.625
3,300	CGS332T350X5L	0.044	9.5	3.000	5.625
3,400	CGS342T350X5L	0.043	9.6	3.000	5.625
3,800	CGS382T350W4L	0.042	8.1	2.500	4.625
4,000	CGS402T350X3L	0.045	8.0	3.000	3.625
4,200	CGS422T350X4C	0.035	9.4	3.000	4.125
4,800	CGS482T350W5L	0.026	11.1	2.500	5.625
6,300	CGS632T350X5L	0.025	12.7	3.000	5.625
6,400	CGS642T350X5C	0.025	12.2	3.000	5.125
7,200	CGS722T350X5L	0.022	13.3	3.000	5.625
7,300	CGS732T350X5L	0.022	11.7	3.000	5.625
7,900	CGS792T350X5R	0.020	13.9	3.000	5.875
10,000	CGS103T350X8L	0.021	16.6	3.000	8.625
12,000	CGS123T350X8L	0.017	18.4	3.000	8.625
400 WVdc (450 Vdc Surge)					
290	CGS291T400R2C	0.320	1.5	1.375	2.125
420	CGS421T400R2L	0.222	2.0	1.375	2.625
550	CGS551T400R3C	0.170	2.4	1.375	3.125
780	CGS781T400V4C	0.114	4.1	2.000	4.125
810	CGS811T400R4C	0.116	3.3	1.375	4.125
1,100	CGS112T400V3C	0.091	4.1	2.000	3.125
1,200	CGS122T400R5L	0.079	4.6	1.375	5.625
1,300	CGS132T400U4C	0.073	4.7	1.750	4.125

Type CGS Computer Grade Aluminum Electrolytic Capacitor

Ratings

		Typical Max Ripple			
Catalog		ESR	120 Hz		
Cap	Part Number	120 Hz	+85 °C	Dia.	Length
(µF)		(Ω)	(A) RMS	(Inches)	(Inches)
400 WVdc (450 Vdc Surge)					
1,700	CGS172T400V4C	0.060	5.7	2.0	4.125
2,600	CGS262T400V5L	0.040	7.8	2.0	5.625
2,800	CGS282T400W4C	0.042	7.8	2.5	4.125
4,200	CGS422T400W5L	0.035	9.6	3.0	4.125
4,300	CGS432T400W5L	0.028	10.8	2.5	5.625
5,700	CGS572T400X5C	0.026	11.9	3.0	5.125
6,400	CGS642T400X5L	0.024	13.0	3.0	5.625
7,000	CGS702T400X5R	0.022	13.5	3.0	5.875
11,000	CGS113T400X8L	0.015	19.8	3.0	8.265
450 WVdc (525 Vdc Surge)					
75	CGS750T450R2C	0.835	0.9	1.375	2.125
100	CGS101T450R2C	0.737	1.0	1.375	2.125
140	CGS141T450R3C	0.496	1.4	1.375	3.125
170	CGS171T450R3C	0.456	1.5	1.375	3.125
210	CGS211T450R4C	0.332	1.9	1.375	4.125
240	CGS241T450R2C	0.416	1.3	1.375	2.125
250	CGS251T450R4C	0.308	2.0	1.375	4.125
320	CGS321T450V3C	0.253	2.5	2.000	3.125
350	CGS351T450R2L	0.288	1.7	1.375	2.625
350	CGS351T450R5C	0.226	3.2	1.375	5.125
400	CGS401T450R5L	0.198	2.9	1.375	5.625
450	CGS451T450V3C	0.188	2.9	2.000	3.125
460	CGS461T450R3C	0.221	2.1	1.375	3.125
480	CGS481T450V4C	0.171	3.4	2.000	4.125
620	CGS621T450V2L	0.201	2.6	2.000	2.625
650	CGS651T450V4C	0.154	3.7	2.000	4.125
680	CGS681T450R4C	0.151	2.9	1.375	4.125
800	CGS801T450V4L	0.108	4.4	2.000	4.625
930	CGS931T450V3C	0.116	3.7	2.000	3.125
970	CGS971T450V4C	0.096	4.5	2.000	4.125
1,000	CGS102T450R5L	0.103	4.0	1.375	5.625
1,000	CGS102T450V3L	0.100	4.1	2.000	3.625
1,000	CGS102T450W4C	0.082	5.5	2.500	4.125
1,100	CGS112T450U4C	0.094	4.1	1.750	4.125
1,100	CGS112T450X4C	0.076	6.5	3.000	4.125
1,400	CGS142T450V4C	0.076	5.0	2.000	4.125
1,400	CGS142T450V4L	0.069	5.5	2.000	4.625
1,400	CGS142T450V5L	0.059	6.5	2.000	5.625
1,400	CGS142T450W5C	0.060	7.1	2.500	5.125
1,500	CGS152T450X4C	0.059	7.4	3.000	4.125
1,500	CGS152T450X5C	0.057	8.1	3.000	5.125
1,700	CGS172T450W3L	0.063	6.0	2.500	3.625
1,800	CGS182T450V5L	0.054	5.4	2.000	5.625
1,800	CGS182T450X5R	0.048	9.3	3.000	5.875
1,900	CGS192T450X5L	0.052	7.6	3.000	5.625
2,000	CGS202T450X5C	0.045	9.1	3.000	5.125
2,200	CGS222T450V5L	0.051	6.9	2.000	5.625
2,200	CGS222T450X4C	0.045	8.4	3.000	4.125
2,300	CGS232T450W4C	0.052	7.0	2.500	4.125
2,400	CGS242T450W4C	0.048	7.2	2.500	4.125
2,400	CGS242T450W4L	0.055	7.1	2.500	4.625
2,400	CGS242T450X5L	0.038	10.3	3.000	5.625

Cap (µF)	Catalog Part Number	Typical	Max Ripple	Dia. (Inches)	Length (Inches)
		ESR	120 Hz		
		120 Hz (Ω)	+85 °C (A) RMS		
450 WVdc (525 Vdc Surge)					
2,500	CGS252T450X3L	0.058	7.0	3.0	3.625
3,100	CGS312T450W5L	0.043	7.2	2.5	5.625
3,300	CGS332T450X5L	0.031	11.4	3.0	5.625
3,500	CGS352T450W5L	0.042	8.8	3.0	4.125
3,600	CGS362T450W5L	0.035	9.7	2.5	5.625
3,600	CGS362T450X4L	0.041	9.2	3.0	4.625
4,600	CGS462T450X5L	0.032	9.6	3.0	5.625
4,700	CGS472T450X5C	0.031	10.9	3.0	5.125
5,300	CGS532T450X5L	0.028	12.0	3.0	5.625
5,800	CGS582T450X5R	0.026	12.4	3.0	5.875
7,700	CGS772T450X8L	0.020	16.7	3.0	8.625
9,000	CGS902T450X8L	0.017	18.2	3.0	8.625
500 WVdc (550 Vdc Surge)					
160	CGS161T500R2C	0.610	1.1	1.375	2.125
240	CGS241T500R2L	0.422	1.4	1.375	2.625
240	CGS241T500U2C	0.416	1.6	1.750	2.125
310	CGS311T500R3C	0.323	1.8	1.375	3.125
310	CGS311T500V2C	0.322	2.0	2.000	2.125
361	CGS361T500U2L	0.282	2.1	1.750	2.625
380	CGS381T500R3L	0.262	2.1	1.375	3.625
450	CGS451T500R4C	0.220	2.4	1.375	4.125
460	CGS461T500V2L	0.225	2.6	2.000	2.625
530	CGS531T500R4L	0.190	2.7	1.375	4.625
600	CGS601T500R5C	0.167	3.0	1.375	5.125
620	CGS621T500U3L	0.164	3.2	1.750	3.625
620	CGS621T500V3C	0.165	3.2	2.000	3.125
670	CGS671T500R5L	0.150	3.5	1.375	5.625
750	CGS751T500U4C	0.136	3.6	1.750	4.125
790	CGS791T500V3L	0.131	3.8	2.000	3.625
880	CGS881T500U4L	0.116	4.1	1.750	4.625
950	CGS951T500V4C	0.108	4.4	2.000	4.125
1000	CGS102T500U5C	0.101	4.6	1.750	5.125
1000	CGS102T500W3C	0.101	4.7	2.500	3.125
1100	CGS112T500U5L	0.089	5.1	1.750	5.625
1100	CGS112T500V4L	0.092	5.0	2.000	4.625
1300	CGS132T500V5C	0.081	5.6	2.000	5.125
1300	CGS132T500W3L	0.080	5.6	2.500	3.625
1500	CGS152T500V5L	0.072	6.1	2.000	5.625
1600	CGS162T500W4C	0.066	6.5	2.500	4.125
1800	CGS182T500W4L	0.057	7.3	2.500	4.625
1900	CGS192T500X3L	0.057	7.5	3.000	3.625
2100	CGS212T500W5C	0.049	8.2	2.500	5.125
2300	CGS232T500X4C	0.047	8.7	3.000	4.125
2400	CGS242T500W5L	0.044	9.0	2.500	5.625
2700	CGS272T500Y3L	0.041	9.8	3.500	3.625
2800	CGS282T500X4L	0.040	9.8	3.000	4.625
3200	CGS322T500X5C	0.035	20.3	3.000	5.125
3300	CGS332T500Y4C	0.034	11.2	3.500	4.125
3500	CGS352T500X5L	0.030	12.1	3.000	5.625
4400	CGS442T500Y5C	0.025	14.1	3.500	5.125
4800	CGS482T500Y5L	0.023	15.2	3.500	5.625
6000	CGS602T500X8L	0.018	18.7	3.000	8.625
8300	CGS832T500Y8L	0.014	23.1	3.500	8.625