

Type CGS High-Cap Screw Terminal Aluminum Electrolytic Capacitor

High CV, Screw Terminal Capacitors



Type CGS screw terminal, 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

RoHS Compliant

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

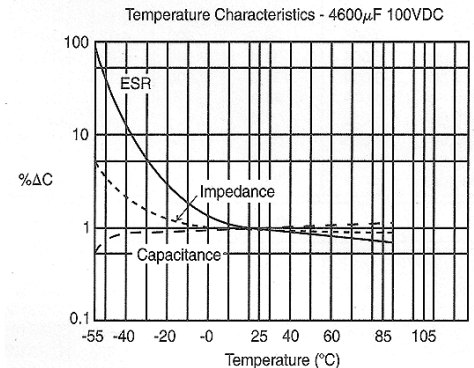
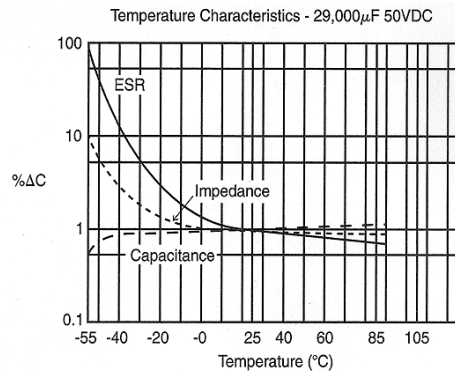
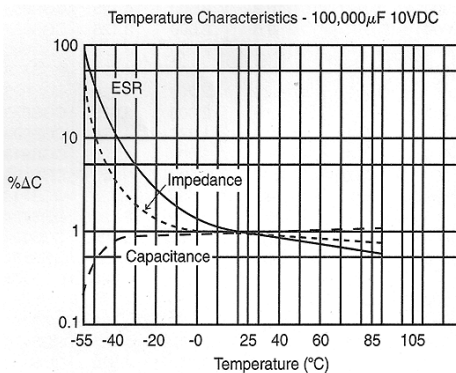
[Click here to see: Hardware & Mounting Options](#)

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

[Click here to see: Mechanical Details](#)

Typical Performance Curves



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Cap (μ F)	Catalog Part Number	Typical Max Ripple			
		ESR 120 Hz (Ω)	120 Hz +85 °C (A) RMS	Dia. (Inches)	Length (Inches)
75 WVdc (95 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	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 (μ F)	Catalog Part Number	Typical Max Ripple			
		ESR 120 Hz (Ω)	120 Hz +85 °C (A) RMS	Dia. (Inches)	Length (Inches)
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

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

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