

CGS - Computer Grade Standard Application Electrolytic Capacitors



- High CV Product
- Screw Terminals
- Suitable for use in most demanding applications requiring high current filtering or energy storage
- Custom Designs Available Upon Request

GENERAL

SPECIFICATIONS

Operating Temperature:
-40°C to +85°C

Voltage Range:
6.3 WVDC to 500 WVDC

Capacitance Range:
75 μ F to 1,500,000 μ F

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

DC Leakage Current:

$I = .006 \sqrt{CV}$ after 5 minutes

Not to exceed 6mA

C = Capacitance in μ F

V = Rated Voltage

I = Leakage Current in mA

QA Stability Test:

Apply WVDC for 1,000 hours at 85°C

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

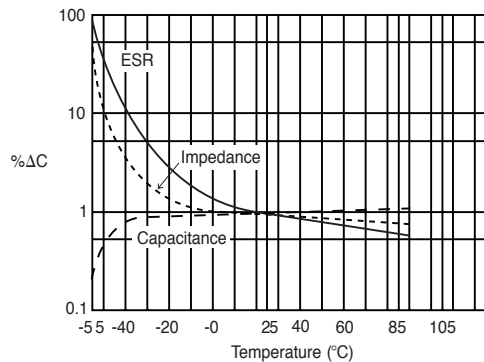
The maximum ripple current at 85°C and 120 Hz for CGS capacitors is shown in the Standard Rating Table. Maximum ripple current may be adjusted by the multipliers in the following tables:

Rated WVDC	Ripple Multipliers				
	60 Hz	120 Hz	400 Hz	1000Hz	2500KHz
3 to 50	0.8	1.0	1.05	1.10	1.14
51 to 150	0.8	1.0	1.08	1.13	1.16
151 & Up	0.8	1.0	1.15	1.21	1.25

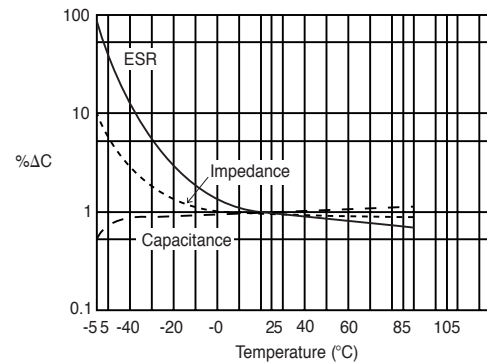
Ambient Temperature	Ripple Multiplier
+85°C	1.00
+75°C	1.4
+65°C	1.7
+55°C	2.0
+45°C	2.2

Typical Performance

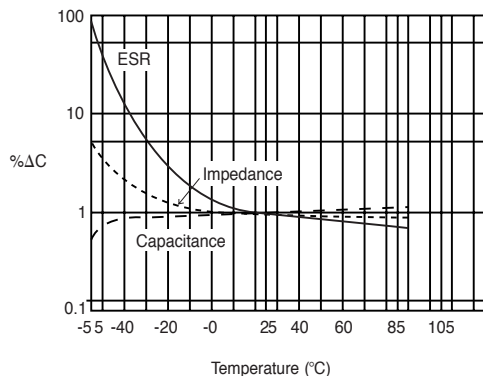
Temperature Characteristics -100,000 μ F 10VDC



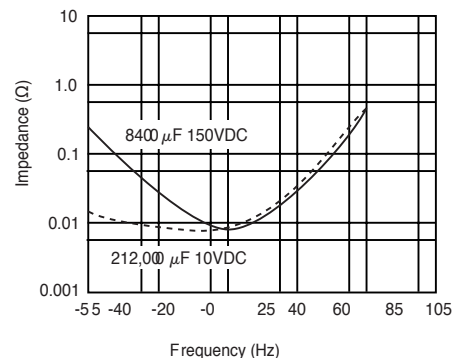
Temperature Characteristics -29,000 μ F 50VDC



Temperature Characteristics -4600 μ F 100VDC



Impedance vs. Frequency @+25°C



Types CGS, CGH, CGO, CGR, CG, HES Part Number Information

DuraCap Catalog Number **CGS 184 U 010 X3L (3 P H) [-S]**

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

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

CAPACITANCE TOLERANCE: _____
F = -0 / +30% **R** = -15 / +15% **U** = -10 / +75%
G = -0 / +50% **S** = -10 / +30% **X** = -10 / +20%
M = -20 / +20% **T** = -10 / +50% **Z** = -10 / +10%

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

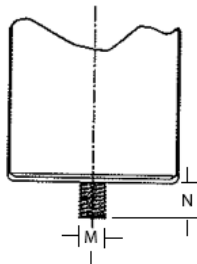
CASE CODE: _____
See chart on next page

INSULATING SLEEVE: _____
 0 = No sleeve
 1 = Mylar (Polyester)
 3 = Single Layer PVC - .008" thickness
 7 = Double Layer .008" PVC (.016" total thickness)
 8 = Blue PVC - .012" thickness

POLARITY: _____
P = Polar **S** = Semi-Polar **N** = Non-Polar

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

CAN DIAMETER	M THREAD	N INCH	N MM
1.375	M8	.472	12
1.750	M8	.472	12
2.000	M12	.630	16
2.500	M12	.630	16
3.000	M12	.630	16
3.500	M12	.630	16

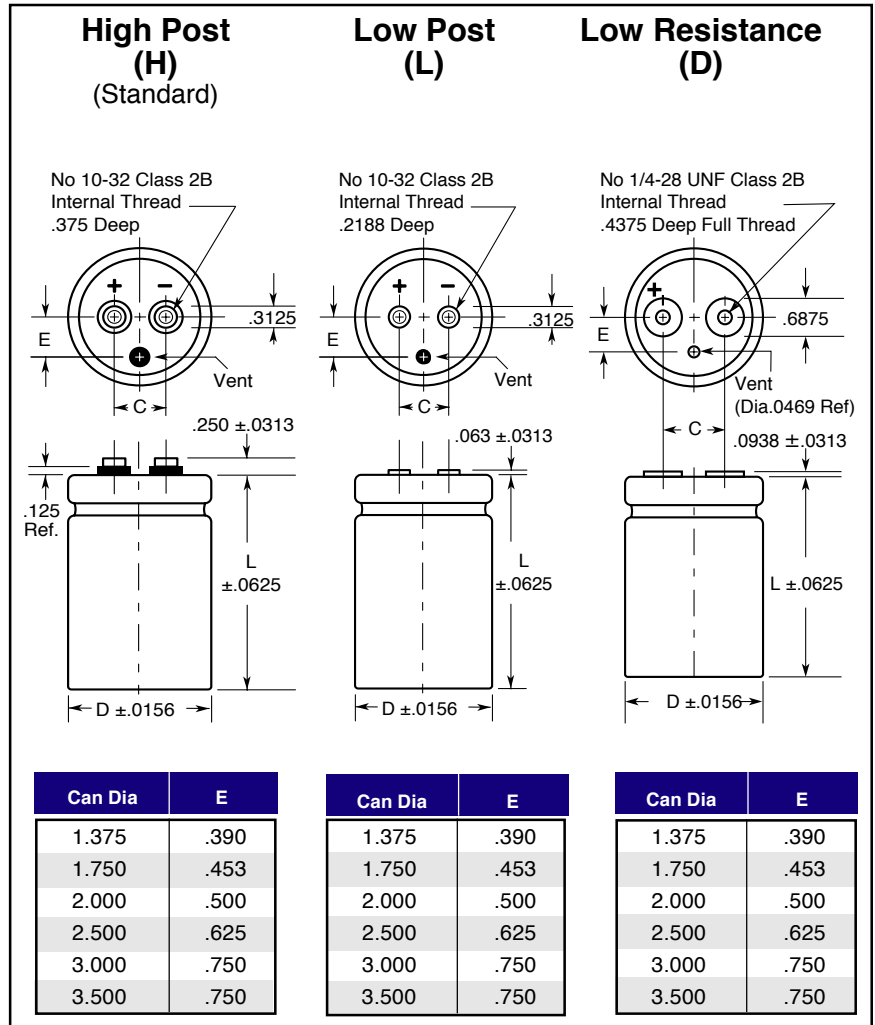


STUDED CAN
CROSS SECTION DETAIL

Type CGS Dimensions and Size Charts

Case Code Chart

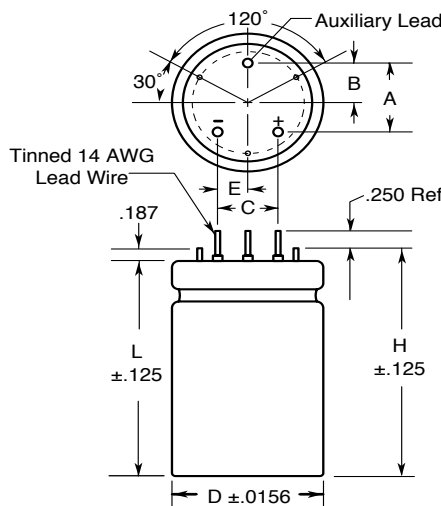
Case Code	Uninsulated Can						Mounting Bracket
	Inches		mm		Inches	mm	
	D	L	D	L	C	C	
R2C	1.375	2.125	35	54	.500	12.7	VR3
R2L	1.375	2.625	35	67	.500	12.7	VR3
R3C	1.375	3.125	35	79.4	.500	12.7	VR3
R3L	1.375	3.625	35	92	.500	12.7	VR3
R4C	1.375	4.125	35	105	.500	12.7	VR3
R4L	1.375	4.625	35	117.5	.500	12.7	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	22.2	VR8
V2L	2.000	2.625	50.8	67	.875	22.2	VR8
V3C	2.000	3.125	50.8	79.4	.875	22.2	VR8
V3L	2.000	3.625	50.8	92	.875	22.2	VR8
V4C	2.000	4.125	50.8	105	.875	22.2	VR8
V4L	2.000	4.625	50.8	117.5	.875	22.2	VR8
V5C	2.000	5.125	50.8	130	.875	22.2	VR8
V5L	2.000	5.625	50.8	143	.875	22.2	VR8
W3C	2.500	3.125	63.5	79.4	1.125	28.6	VR10
W3L	2.500	3.625	63.5	92	1.125	28.6	VR10
W4C	2.500	4.125	63.5	105	1.125	28.6	VR10
W4L	2.500	4.625	63.5	117.5	1.125	28.6	VR10
W5C	2.500	5.125	63.5	130	1.125	28.6	VR10
W5L	2.500	5.625	63.5	143	1.125	28.6	VR10
X3L	3.000	3.625	76.2	92	1.250	31.7	VR12
X4C	3.000	4.125	76.2	105	1.250	31.7	VR12
X4L	3.000	4.625	76.2	117.5	1.250	31.7	VR12
X5C	3.000	5.125	76.2	130	1.250	31.7	VR12
X5L	3.000	5.625	76.2	143	1.250	31.7	VR12
X5R	3.000	5.875	76.2	149	1.250	31.7	VR12
X6L	3.000	6.625	76.2	168	1.250	31.7	VR12
X7L	3.000	7.625	76.2	194	1.250	31.7	VR12
X8L	3.000	8.625	76.2	219	1.250	31.7	VR12
Y3L	3.500	3.625	88.9	92	1.25	31.7	N/A
Y4C	3.500	4.125	88.9	105	1.25	31.7	N/A
Y4L	3.500	4.625	88.9	117.5	1.25	31.7	N/A
Y5C	3.500	5.125	88.9	130	1.25	31.7	N/A
Y5L	3.500	5.625	88.9	143	1.25	31.7	N/A
Y5R	3.500	5.875	88.9	149	1.25	31.7	N/A
Y6L	3.500	6.625	88.9	168	1.25	31.7	N/A
Y7L	3.500	7.625	88.9	194	1.25	31.7	N/A
Y8L	3.500	8.625	88.9	219	1.25	31.7	N/A



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

PC Mounting Board Dimensions

Case Code	Uninsulated Can						
	Inches						
	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



Selector Guide & Performance Specifications Computer Grade Capacitors

Type	Temperature Range	VDC Range	Life Test Hours @°C	High Cap	Low ESR	Low Hi-Freq. Imped.	High Ripple	Long Life	Low Cost	Comment
CGS / CGH	-40°C to +85°C	10 to 500	1000 +85	Good	Good	Good	Good		Best	Max Cap, Best Value Standard Life & Ripple
CG	-40°C to +85°C	10 to 450	2000 +85	Best		Good	Good		Good	Max Cap, Long Life Max Ripple, Low ESR
HES	-40°C to +105°C	350 to 400	1000 +105	Good	Good	Good	Good	Good	Good	Motor Control, Ultra High Ripple High Voltage
CGR	-40°C to +105°C	7.5 to 200	2000 +105	Good	Good	Good	Good	Good	Good	Wide Temperature Range, MIL-C-39018/04, 06, 10 equivalent
CGO	-40°C to +85°C	5 to 55	1000 +85		Best				Good	Lowest ESR

Storage: From -55°C to maximum operating temperature up to 200,000 feet above sea level.

Test Conditions

Surge Test: Connect capacitor in series with resistor as follows:

- C = 0 - 2500 μ F R = 1000 Ω
- C = 2500 - 25k μ F R = 500 Ω
- C = \geq 25,001 μ F R = 100 Ω

Subject the series combination to rated surge voltage. For capacitors rated at +85°C, apply surge voltage for 30 seconds. Allow capacitor to discharge through resistor. Apply voltage again after 9.5 minutes. Repeat 10 minute cycle for 24 hours. For capacitors rated at +105°C, apply voltage for 30 seconds and off for 5.5 minutes for 1,000 cycles. Following surge test, allow capacitors to cool to room temperature and measure DCL. DCL is not to increase from initial requirement and no electrolyte shall have leaked.

Load Life Test: Use a circulating air oven set to capacitor(s) maximum operating temperature. Separate capacitors to maintain temperature -0°C +3°C. Apply rated VDC for rated life \pm 12 hours using regulated power supply free from turn-on / turn-off voltage transients. At end of test, return capacitors to room temperature for 24 hours (minimum).

DCL is not to exceed initial requirement.
Capacitance must not be less than 85% of initial measured value.
ESR must not be greater than:

Type	% of Initial Requirement
CGS / CGH	175
CG / HES	175
CGR	100
CGO	175

Full Ripple Life Test: Use a circulating air oven as in Load Life Test. Apply DC voltage with rated ripple current from AC source and reduce DC voltage unit sum of DC voltage and peak AC voltage equals capacitor's rated voltage. At end of life test return capacitors to room temperature for 24 hours (minimum). Capacitance, ESR and DCL must meet Load Life Test requirements.

Shelf Life Test: Use a circulating air oven as above for rated shelf life \pm 6 hours. Allow capacitors to cool to room temperature and stabilize for a minimum of 16 hours. Capacitance, ESR and DCL will meet initial requirements.

Vibration: Clamp capacitor to a vibrating platform and subject it to a simple harmonic motion with a maximum peak-to-peak amplitude of 0.06" and maximum acceleration of 10g. Vary the frequency linearly between 10 and 55Hz. Entire range of 10-55Hz must be traversed in one minute. Vibrate capacitor for 1-1/2 hours with the direction of motion being parallel to the axis of the capacitor. Then move the capacitor so the direction of motion is perpendicular to the axis of the capacitor and continue the vibration for an additional 1-1/2 hours. During the last 30 minutes of the test connect the capacitor to a bridge and observe for 3 minutes. There will be no evidence of loosening of the capacitor element within the case when shaken by hand following the test. No indication of intermittent contact, open or shorting is allowed during the 3 minute observation period.

Container Seal: Following the vibration test, each capacitor for seal tightness as follows:

Subject the capacitors to two successive temperature cycles in circulating air. One temperature cycle is:

- A. 85°C for 30 minutes
- B. 25°C for 30 minutes
- C. -40°C for 30 minutes
- D. 25°C for 30 minutes

Following the second cycle, immerse the capacitor in 90-95°C water for five minutes. A failure is a continuous chain of bubbles when immersed.

Vent Test: Apply reverse DC voltage to a capacitor at 15-25 Amperes. If the capacitor is open or shorts and the vent has not operated, test additional capacitors. The vent must operate and there must be no explosion.

Shelf Life: Capacitors stored more than 5 years should be checked for DCL to see if they meet requirements. Apply rated VDC for 30 minutes through a 1000 Ω resistor to bring DCL within limits.

Voltage Reversal: Capacitors will withstand a maximum 1.5 VDC reverse bias.

Mounting: The preferred mounting for large computer grade capacitors is in the vertical position with the pressure relief vent up or horizontal with the pressure relief valve up. Be sure to allow 1/2 inch (minimum) clearance to permit the vent to operate.

Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
6.3 WVDC; 8 VDC Surge					
73000	0.023	8.0	1.375	2.625	CGS733U6R3R2L
95000	0.014	10.4	1.375	3.125	CGS953U6R3R3C
140000	0.011	11.2	1.375	4.125	CGS144U6R3R4C
190000	0.013	12.6	2.000	3.125	CGS194U6R3V3C
210000	0.011	10.9	1.375	5.625	CGS214U6R3R5L
230000	0.009	13.1	1.750	4.125	CGS234U6R3U4C
300000	0.010	14.7	2.000	4.125	CGS304U6R3V4C
310000	0.007	16.9	2.000	5.625	CGS314U6R3V5L
480000	0.007	19.6	2.500	4.125	CGS484U6R3W4C
500000	0.005	22.9	2.500	5.625	CGS504U6R3W5L
670000	0.006	20.7	3.000	4.125	CGS674U6R3X4C
900000	0.005	23.5	3.000	5.125	CGS904U6R3X5C
1000000	0.005	24.5	3.000	5.625	CGS105U6R3X5L
1100000	0.004	24.7	3.000	5.875	CGS115U6R3X5R

7.5 WVDC; 9 VDC Surge					
49000	0.030	6.7	1.375	2.125	CGS493U7R5R2C
71000	0.023	7.9	1.375	2.625	CGS713U7R5R2L
92000	0.019	8.8	1.375	3.125	CGS923U7R5R3C
140000	0.014	10.3	1.375	4.125	CGS144U7R5R4C
190000	0.013	12.5	2.000	3.125	CGS194U7R5V3C
200000	0.012	10.8	1.375	5.625	CGS204U7R5R5L
220000	0.010	13.1	1.750	4.125	CGS224U7R5U4C
290000	0.010	14.6	2.000	4.125	CGS294U7R5V4C
440000	0.007	16.8	2.000	5.625	CGS444U7R5V5L
470000	0.007	19.5	2.500	4.125	CGS474U7R5W4C
650000	0.005	24.4	3.000	4.125	CGS654U7R5W5L
710000	0.005	22.8	2.500	5.625	CGS714U7R5W5L
870000	0.005	23.4	3.000	5.125	CGS874U7R5X5C
980000	0.005	24.4	3.000	5.625	CGS984U7R5X5L
1000000	0.004	24.7	3.000	5.875	CGS105U7R5X5R

Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
10 WVDC; 12 VDC Surge					
7200	0.035	4.5	1.375	2.125	CGS722U010R2C
12000	0.034	4.6	1.375	2.125	CGS123U010R2C
14000	0.030	4.9	1.375	2.125	CGS143U010R2C
18000	0.078	3.1	1.375	2.125	CGS183U010R2C
20000	0.025	5.9	1.375	2.625	CGS203U010R2L
26000	0.020	7.0	1.375	3.125	CGS263U010R3C
33000	0.018	7.4	1.375	3.125	CGS333U010R3C
43000	0.030	6.7	1.375	2.125	CGS433U010R2C
44000	0.013	9.4	2.000	2.125	CGS443U010V2C
62000	0.023	7.9	1.375	2.625	CGS623U010R2L
81000	0.019	8.8	1.375	3.125	CGS813U010R3C
94000	0.007	16.3	2.000	4.125	CGS943U010V4C
110000	0.008	16.7	2.500	3.625	CGS114U010W3L
120000	0.014	10.3	1.375	4.125	CGS124U010R4C
170000	0.013	12.5	2.000	3.125	CGS174U010V3C
180000	0.012	10.8	1.375	5.625	CGS184U010R5L
200000	0.010	13.1	1.750	4.125	CGS204U010U4C
250000	0.010	14.6	2.000	4.125	CGS254U010V4C
390000	0.007	16.8	2.000	5.625	CGS394U010V5L
410000	0.007	19.5	2.500	4.125	CGS414U010W4C
580000	0.006	20.6	2.500	5.625	CGS584U010W5L
630000	0.005	22.8	2.500	5.625	CGS634U010W5L
780000	0.005	23.4	3.000	5.125	CGS784U010X5C
880000	0.050	24.4	3.000	5.625	CGS884U010X5L
920000	0.005	24.7	3.000	5.875	CGS924U010X5R

16 WVDC; 20 VDC Surge					
5500	0.037	4.4	1.375	2.125	CGS552U016R2C
8900	0.034	4.6	1.375	2.125	CGS892U016R2C
10000	0.033	4.7	1.375	2.125	CGS103U016R2C
10000	0.024	6.4	1.375	3.125	CGS103U016R3C
12000	0.031	4.8	1.375	2.125	CGS123U016R2C
15000	0.026	5.6	1.375	2.625	CGS153U016R2L
15000	0.061	4.5	1.375	4.125	CGS153U016R4C

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Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
17000	0.022	6.7	1.375	3.125	CGS173U016R3C
19000	0.021	6.8	1.375	3.125	CGS193U016R3C
21000	0.037	5.5	1.375	3.625	CGS213U016R3L
22000	0.027	7.6	2.000	3.125	CGS233U016V3C
24000	0.032	5.6	1.375	3.125	CGS243U016R3C
25000	0.016	8.8	1.375	4.125	CGS253U016R4C
25000	0.031	6.1	2.000	2.125	CGS253U016V2C
33000	0.020	7.9	1.375	4.125	CGS333U016R4C
33000	0.028	6.5	2.000	2.125	CGS333U016V2C
34000	0.020	9.8	1.375	4.125	CGS343U016R4C
34000	0.016	8.8	2.000	4.125	CGS343U016V4C
35000	0.030	6.7	1.375	2.125	CGS353U016R2C
38000	0.019	9.4	1.375	3.125	CGS383U016R3C
38000	0.021	8.6	2.000	3.125	CGS383U016V3C
49000	0.023	7.9	1.375	2.625	CGS493U016R2L
50000	0.011	11.7	2.000	3.125	CGS503U016V3C
55000	0.015	10.2	1.375	3.625	CGS553U016R3L
55000	0.018	9.6	2.000	3.625	CGS553U016V3L
62000	0.019	8.8	1.375	3.125	CGS623U016R3C
66000	0.012	11.6	1.375	4.125	CGS663U016R4C
66000	0.017	10.8	2.000	4.125	CGS663U016V4C
68000	0.017	9.5	2.000	3.125	CGS683U016V3C
70000	0.008	15.2	2.000	4.125	CGS703U016V4C
77000	0.015	11.8	2.000	4.625	CGS773U016V4L
80000	0.009	18.9	3.000	4.125	CGS803U016X4C
83000	0.015	12.9	2.000	5.625	CGS833U016V5L
90000	0.014	10.3	1.375	4.125	CGS903U016R4C
91000	0.009	14.7	2.000	4.125	CGS913U016V4C
100000	0.007	22.5	3.000	5.125	CGS104U016X5C
110000	0.010	16.0	2.500	4.125	CGS114U016W4C
120000	0.007	20.1	3.000	3.625	CGS124U016V4C
130000	0.010	12.6	1.375	5.625	CGS134U016R5L
130000	0.011	12.5	2.000	3.125	CGS134U016V3C
130000	0.009	17.6	2.500	4.625	CGS134U016W4L
150000	0.007	19.3	3.000	5.625	CGS154U016X5L
160000	0.010	13.1	1.750	4.125	CGS164U016U4C

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
170000	0.004	23.5	2.000	4.125	CGS174U016V4C
180000	0.006	24.3	3.000	4.625	CGS184U016X4L
190000	0.007	19.5	2.000	4.125	CGS194U016V4C
210000	0.005	29.2	3.000	5.875	CGS214U016X5R
220000	0.005	25.2	3.000	4.125	CGS224U016X4C
260000	0.003	29.8	2.000	5.625	CGS264U016V5L
290000	0.005	21.1	2.000	5.625	CGS294U016V5L
310000	0.005	22.7	2.500	4.125	CGS314U016W4C
470000	0.004	30.4	2.500	5.625	CGS474U016W5L
620000	0.004	32.3	3.000	5.125	CGS624U016X5C
640000	0.002	44.9	3.000	5.625	CGS644U016X5L
640000	0.002	30.0	3.000	5.625	CGS644UFX5L3PD
700000	0.003	35.0	3.000	5.625	CGS704U016X5L
740000	0.003	35.8	3.000	5.875	CGS744U016X5R
980000	0.007	23.8	3.000	8.625	CGS984U016X8L

20 WVDC; 22 VDC Surge

250000	0.006	29.0	3.000	3.625	CGS254U020X3L
500000	0.004	37.0	3.000	5.625	CGS504U020X5L
1000000	0.003	41.0	3.000	8.625	CGS105UGX8L6PD
1000000	0.003	41.0	3.000	8.625	CGS105UGX8L6PH
1000000	0.003	40.0	3.000	5.875	CGS105U020X5R
1500000	0.003	41.0	3.000	8.625	CGS155U020X8L

25 WVDC; 30 VDC Surge

3000	0.235	1.8	1.375	2.125	CGS302U025R2C
4700	0.101	2.7	1.375	2.125	CGS472U025R2C
5600	0.026	6.1	1.375	3.125	CGS562U025R3C
6000	0.035	4.5	1.375	2.125	CGS602U025R2C
6800	0.096	2.8	1.375	2.125	CGS682U025R2C
8200	0.019	8.1	1.375	4.125	CGS822U025R4C
8900	0.024	6.4	1.375	3.125	CGS892U025R3C
10000	0.024	6.4	1.375	3.125	CGS103U025R3C
12000	0.024	8.1	2.000	3.125	CGS123U025R3C
12000	0.023	6.6	1.375	3.125	CGS123U025V3C

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Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
13000	0.082	3.9	1.375	4.125	CGS133U025R4C
14000	0.046	5.3	1.750	3.125	CGS143U025U3C
14000	0.037	5.6	2.000	2.125	CGS143U025V2C
16000	0.017	8.5	1.375	4.125	CGS163U025R4C
18000	0.017	8.6	1.375	4.125	CGS183U025R4C
18000	0.052	6.1	2.000	4.125	CGS183U025V4C
20000	0.023	6.5	1.375	3.125	CGS203U025R3C
20000	0.014	10.3	1.375	5.125	CGS203U025R5C
20000	0.024	8.0	2.000	3.125	CGS203U025V3C
22000	0.032	6.4	1.375	2.125	CGS223U025R2C
22000	0.043	5.2	2.000	2.125	CGS223U025V2C
28000	0.028	7.5	2.000	3.125	CGS283U025V3C
29000	0.018	10.5	2.000	4.125	CGS293U025V4C
30000	0.029	8.4	2.500	3.125	CGS303U025W3C
31000	0.024	7.6	1.375	2.625	CGS313U025R2L
32000	0.018	10.3	2.000	4.125	CGS323U025V4C
33000	0.018	9.3	2.000	3.125	CGS333U025V3C
40000	0.020	8.4	1.375	3.125	CGS403U025R3C
41000	0.020	9.8	2.000	4.125	CGS413U025V4C
43000	0.022	8.5	1.375	4.125	CGS433U025R4C
43000	0.021	12.2	3.000	4.125	CGS433U025X4C
47000	0.022	9.5	2.000	4.125	CGS473U025V4C
50000	0.018	11.7	2.000	5.625	CGS503U025V5L
50000	0.010	14.9	2.500	3.625	CGS503U025W3L
57000	0.017	14.6	3.000	5.125	CGS573U025X5C
58000	0.014	10.0	1.375	4.125	CGS583U025R4C
65000	0.009	16.5	2.500	4.125	CGS653U025W4C
68000	0.006	17.9	2.000	4.125	CGS683U025V4C
70000	0.010	18.1	3.000	4.125	CGS703U025X4C
82000	0.011	15.5	2.000	3.125	CGS823U025V3C
85000	0.011	12.2	1.375	5.625	CGS853U025R5L
90000	0.007	21.4	2.500	5.625	CGS903U025W5L
92000	0.008	21.6	3.000	5.125	CGS923U025X5C
95000	0.011	16.9	3.000	4.125	CGS953U025X4C
100000	0.010	12.7	1.750	4.125	CGS104U025U4C
100000	0.005	22.8	2.000	5.625	CGS104U025V5L

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Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
100000	0.011	16.0	3.000	3.625	CGS104U025X3L
110000	0.008	20.7	3.000	5.125	CGS114U025X5C
110000	0.009	20.9	3.000	5.625	CGS114U025X5L
120000	0.008	15.5	2.000	4.125	CGS124U025V4C
120000	0.010	17.9	3.000	4.125	CGS124U025X4C
120000	0.007	21.6	3.000	5.625	CGS124U050X5L
180000	0.004	30.3	3.000	4.125	CGS184U025X4C
190000	0.006	20.4	2.000	5.625	CGS194U025V5L
200000	0.005	22.0	2.500	4.125	CGS204U025W4C
204000	0.006	29.9	3.000	8.625	CGS2043U025X8L
270000	0.003	36.6	3.000	5.625	CGS274U025X5L
270000	0.003	30.0	3.000	5.625	CGS274UHX5L3PD
300000	0.005	26.2	2.500	5.625	CGS304U025W5L
310000	0.004	29.6	2.500	5.625	CGS314U025W5L
400000	0.004	31.6	3.000	5.125	CGS404U025X5C
450000	0.003	34.3	3.000	5.625	CGS454U025X5L
480000	0.003	35.0	3.000	5.875	CGS484U025X5R
740000	0.002	48.3	3.000	8.625	CGS744U025X8L

30 WVDC; 35 VDC Surge					
4500	0.037	4.4	1.375	2.125	CGS452U030R2C
5000	0.037	4.5	1.375	2.125	CGS502U030R2C
8000	0.024	6.4	1.375	3.125	CGS802U030R3C
9200	0.024	6.4	1.375	3.125	CGS922U030R3C
12000	0.018	8.4	1.375	4.125	CGS123U030R4C
13000	0.018	8.4	1.375	4.125	CGS133U030R4C
15000	0.016	9.3	1.375	4.625	CGS153U030R4L
20000	0.013	11.0	1.375	5.625	CGS203U030R5L
30000	0.019	10.0	2.000	4.125	CGS303U030V4C
33000	0.020	9.8	2.000	4.125	CGS333U030V4C
44000	0.015	11.7	2.500	3.125	CGS443U030W3C
50000	0.016	12.7	2.000	5.625	CGS503U030V5L
55000	0.009	16.3	2.500	4.125	CGS553U030W4C
78000	0.011	16.8	3.000	4.125	CGS783U030X4C
100000	0.008	22.4	3.000	5.625	CGS104U030X5L

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Capacitance (μF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
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35 WVDC; 40 VDC Surge					
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4400	0.145	2.2	1.375	2.125	CGS442U035R2C
8200	0.024	6.4	1.375	3.125	CGS822U035R3C
10000	0.038	5.5	2.000	2.125	CGS103U035V2C
12000	0.018	8.4	1.375	4.125	CGS123U035R4C
21000	0.023	6.4	1.375	3.125	CGS213U035R3C
21000	0.029	7.3	2.000	3.125	CGS213U035V3C
30000	0.028	8.6	2.500	3.125	CGS303U035W3C
31000	0.021	9.6	2.000	4.125	CGS313U035V4C
60000	0.010	19.7	3.000	5.125	CGS603U035X5C
70000	0.012	16.6	3.000	4.125	CGS703U035X4C

40 WVDC; 50 VDC Surge					
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2200	0.044	4.1	1.375	2.125	CGS222U040R2C
2700	0.042	4.2	1.375	2.125	CGS272U040R2C
3500	0.038	4.4	1.375	2.125	CGS352U040R2C
4200	0.028	6.0	1.375	3.125	CGS422U040R3C
4700	0.036	4.5	1.375	2.125	CGS472U040R2C
5100	0.026	6.1	1.370	3.125	CGS512U040R3C
6000	0.025	6.2	1.375	3.125	CGS602U040R3C
6200	0.020	7.9	1.375	4.125	CGS622U040R4C
7500	0.019	8.1	1.375	4.125	CGS752U040R4C
9000	0.019	8.2	1.375	4.125	CGS902U040R4C
9300	0.024	8.1	2.000	3.125	CGS932U040V3C
11000	0.024	8.0	2.000	3.125	CGS113U040V3C
12000	0.049	5.0	1.375	4.125	CGS123U040R4C
12000	0.067	4.2	2.000	2.125	CGS123U040V2C
13000	0.033	6.0	1.375	2.125	CGS133U040R2C
13000	0.017	10.5	2.000	4.125	CGS133U040V4C
17000	0.025	6.1	1.375	3.125	CGS173U040R3C
17000	0.029	7.4	2.000	3.125	CGS173U040V3C
17000	0.018	10.4	2.000	4.125	CGS173U040V4C
18000	0.025	7.1	1.375	2.625	CGS183U040R2L
20000	0.014	13.6	2.000	5.625	CGS203U040V5L

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
22000	0.031	7.1	2.000	3.125	CGS223U040V3C
23000	0.021	7.9	1.375	3.125	CGS233U040R3C
23000	0.020	9.9	2.000	4.125	CGS233U040V4C
32000	0.021	9.5	2.000	4.125	CGS323U040V4C
33000	0.021	9.7	2.000	4.125	CGS333U040V4C
34000	0.015	9.4	1.375	4.125	CGS343U040R4C
35000	0.015	12.8	2.000	5.625	CGS353U040V5L
40000	0.014	9.9	2.000	3.125	CGS403U040V3C
40000	0.010	16.3	2.500	4.125	CGS403U040W4C
40000	0.010	18.1	3.000	4.125	CGS403U040X4C
43000	0.020	13.8	3.000	5.125	CGS433U040X5C
47000	0.014	11.0	2.000	3.125	CGS473U040V3C
47000	0.010	15.8	2.500	4.125	CGS473U040W4C
49000	0.013	11.0	1.375	5.625	CGS493U040R5L
53000	0.008	21.5	3.000	5.125	CGS533U040X5C
55000	0.011	16.9	2.500	5.625	CGS553U040W5L
61000	0.011	11.4	1.750	4.125	CGS613U040U4C
68000	0.012	16.0	3.000	4.125	CGS683U040X4C
71000	0.010	14.0	2.000	4.125	CGS713U040V4C
78000	0.009	22.7	3.000	6.625	CGS783U040X6L
110000	0.007	18.6	2.000	5.625	CGS114U040V5L
120000	0.006	20.0	2.500	4.125	CGS124U040W4C
150000	0.003	36.6	3.000	5.625	CGS154U040X5L
150000	0.003	30.0	3.000	5.625	CGS154ULX5L3PD
180000	0.005	27.0	2.500	5.625	CGS184U040W5L
230000	0.004	29.5	3.000	5.125	CGS234U040X5C
260000	0.004	32.1	3.000	5.625	CGS264U040X5L
280000	0.004	32.7	3.000	5.875	CGS284U040X5R
430000	0.003	45.6	3.000	8.625	CGS434U040X8L

50 WVDC; 65 VDC Surge

1600	0.048	3.9	1.375	2.125	CGS162U050R2C
2200	0.044	4.1	1.375	2.125	CGS222U050R2C
2900	0.030	5.7	1.375	3.125	CGS292U050R3C
3000	0.040	4.3	1.375	2.125	CGS302U050R2C

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
3300	0.182	2.0	1.375	2.125	CGS332U050R2C
4100	0.022	7.6	1.375	3.125	CGS412U050R3C
4300	0.022	7.6	1.375	4.125	CGS432U050R4C
4900	0.023	7.0	1.375	3.625	CGS492U050R3L
5000	0.026	6.1	1.375	3.125	CGS502U050R3C
5700	0.096	3.2	1.375	3.125	CGS572U050R3C
6100	0.020	7.9	1.375	4.125	CGS612U050R4C
6500	0.025	7.9	2.000	3.125	CGS652U050V3C
6700	0.022	7.2	1.375	3.625	CGS672U050R3L
6800	0.024	6.4	1.375	3.125	CGS682U050R3C
7500	0.019	8.1	1.375	4.125	CGS752U050R4C
8000	0.043	5.2	2.000	2.125	CGS802U050V2C
9600	0.036	5.6	1.375	2.125	CGS962U050R2C
9600	0.018	10.3	2.000	4.125	CGS962U050V4C
10000	0.017	8.5	1.375	4.125	CGS103U050R4C
10000	0.049	4.9	2.000	2.125	CGS103U050V2C
12000	0.014	10.7	1.375	5.625	CGS123U050R5L
13000	0.027	6.7	1.375	2.625	CGS133U050R2L
13000	0.031	6.2	1.375	3.125	CGS133U050R3C
13000	0.029	7.3	2.000	3.125	CGS133U050V3C
14000	0.031	7.1	2.000	5.625	CGS143U050V5L
14500	0.022	7.3	2.000	3.125	CGS1452U050V3C
15000	0.019	10.0	2.000	4.125	CGS153U050V4C
17000	0.022	7.5	1.375	3.125	CGS173U050R3C
18000	0.034	6.8	2.000	3.125	CGS183U050V3C
20000	0.019	8.2	1.375	4.125	CGS203U050R4C
20000	0.021	9.5	2.000	4.125	CGS203U050V4C
20000	0.014	13.2	2.000	5.625	CGS203U050V5L
24000	0.014	12.1	2.500	3.125	CGS243U050W3C
25000	0.016	8.9	1.375	4.125	CGS253U050R4C
25000	0.021	9.8	1.750	4.125	CGS253U050U4C
25000	0.024	10.2	2.500	4.125	CGS253U050W4C
27000	0.022	9.3	2.000	4.125	CGS273U050V4C
28000	0.018	11.4	2.000	5.125	CGS283U050V5C
30000	0.016	12.4	2.000	5.625	CGS303U050V5L
31000	0.028	9.6	2.500	4.125	CGS313U050W4C

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
33000	0.025	10.0	2.500	4.125	CGS333U050W4C
35000	0.016	10.5	2.000	3.125	CGS353U050V3C
37000	0.012	11.8	1.375	5.625	CGS373U050R5L
41000	0.009	19.2	3.000	4.625	CGS413U050X4L
43000	0.023	12.7	3.000	5.125	CGS433U050X5C
45000	0.012	11.0	1.750	4.125	CGS453U050U4C
48000	0.012	16.2	3.000	4.125	CGS483U050X4C
50000	0.008	20.4	2.500	5.625	CGS503U050W5L
51000	0.010	18.4	3.000	5.875	CGS513U050X5R
53000	0.011	13.3	2.000	4.125	CGS533U050V4C
56000	0.005	23.1	3.000	3.625	CGS563U050X3L
60000	0.010	19.8	3.000	5.125	CGS603U050X5C
68000	0.017	15.0	3.000	4.125	CGS683U050X4C
70000	0.016	15.7	3.000	5.625	CGS703U050X5L
79000	0.008	17.7	2.000	5.625	CGS793U050V5L
82000	0.004	29.2	3.000	4.125	CGS823U050X4C
87000	0.007	19.1	2.500	4.125	CGS873U050W4C
100000	0.007	29.3	3.000	8.625	CGS104U050X8L
120000	0.003	36.6	3.000	5.625	CGS124U050X5L
120000	0.003	30.0	3.000	5.625	CGS124UNX5L3PD
130000	0.005	25.8	2.500	5.625	CGS134U050W5L
190000	0.004	31.0	3.000	5.625	CGS194U050X5L
210000	0.004	31.6	3.000	5.875	CGS214U050X5R
320000	0.006	30.7	3.000	8.625	CGS324U050X8L

63 WVDC; 75 VDC Surge

6100	0.043	5.0	1.375	2.125	CGS612U063R2C
8900	0.032	6.0	1.375	2.625	CGS892U063R2L
12000	0.027	6.7	1.375	3.125	CGS123U063R3C
14000	0.019	8.1	1.375	4.125	CGS143U063R4C
19000	0.021	9.2	2.000	3.125	CGS193U063V3C
20000	0.015	9.3	1.375	5.625	CGS203U063R5L
28000	0.014	10.3	1.750	4.125	CGS283U063U4C
36000	0.014	11.5	2.000	4.125	CGS363U063V4C
55000	0.010	14.6	2.000	5.625	CGS553U063V5L

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
60000	0.010	15.6	2.500	4.125	CGS603U063W4C
89000	0.010	18.0	2.500	5.625	CGS893U063W5L
91000	0.007	20.0	2.500	5.625	CGS913U063W5L
120000	0.007	21.3	3.000	5.125	CGS124U063X5C
140000	0.007	23.2	3.000	5.625	CGS144U063X5L
150000	0.007	23.7	3.000	5.875	CGS154U063X5R
210000	0.012	21.3	3.000	8.625	CGS214U063X8L

75 WVDC; 95 VDC Surge					
820	0.591	1.1	1.375	2.125	CGS821U075R2C
1500	0.041	4.9	1.375	3.125	CGS152U075R3C
2100	0.036	5.3	1.375	3.125	CGS212U075R3C
2200	0.041	4.2	1.375	2.125	CGS222U075R2C
2300	0.028	6.6	1.375	4.125	CGS232U075R4C
2500	0.096	3.2	1.375	4.125	CGS252U075R4C
2900	0.032	5.6	1.375	3.125	CGS292U075R3C
3300	0.120	2.9	1.375	3.125	CGS332U075R3C
4200	0.023	7.4	1.375	4.125	CGS422U075R4C
4800	0.031	6.7	1.375	3.125	CGS482U075R3C
4800	0.030	7.2	2.000	3.125	CGS482U075V3C
5000	0.058	4.4	1.375	2.125	CGS502U075R2C
5600	0.021	7.8	1.375	4.125	CGS562U075R4C
6300	0.017	9.8	1.375	5.625	CGS632U075R5L
7000	0.044	5.3	1.375	2.625	CGS702U075R2L
7100	0.022	9.5	2.000	4.125	CGS712U075V4C
7300	0.078	4.5	2.000	3.125	CGS732U075V3C
7500	0.017	12.3	2.000	5.625	CGS752U075V5L
9000	0.036	5.9	1.375	3.125	CGS902U075R3C
10000	0.029	5.8	1.375	3.125	CGS103U075R3C
10000	0.041	6.2	2.000	3.125	CGS103U075V3C
10000	0.024	9.0	2.000	4.125	CGS103U075V4C
12000	0.021	7.6	1.375	4.125	CGS123U075R4C
12000	0.026	8.7	2.000	4.125	CGS123U075V4C
13000	0.026	7.2	1.375	4.125	CGS133U075R4C
15000	0.018	11.9	2.000	5.625	CGS153U075V5L

Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
17000	0.033	8.8	2.500	4.125	CGS173U075W4C
17000	0.033	9.8	3.000	4.125	CGS173U075X4C
18000	0.023	8.9	2.000	3.125	CGS183U075V3C
18000	0.009	14.5	2.000	4.125	CGS183U075V4C
19000	0.019	7.8	1.375	5.625	CGS193U075R5L
23000	0.017	9.8	1.750	4.125	CGS233U075U4C
25000	0.039	9.0	3.000	4.125	CGS253U075X4C
25000	0.024	11.7	2.500	5.625	CGS253U075W5L
25000	0.014	15.0	3.000	4.125	CGS253U075X4C
26000	0.028	10.3	2.000	4.125	CGS263U075V4C
26000	0.037	10.6	3.000	5.875	CGS263U075X5R
27000	0.016	11.0	2.000	4.125	CGS273U075V4C
27000	0.019	12.5	3.000	3.625	CGS273U075X3L
33000	0.019	12.7	3.000	4.125	CGS333U075X4C
37000	0.011	16.4	2.000	5.625	CGS373U075V5L
37000	0.010	19.7	3.000	5.625	CGS373U075X5L
41000	0.011	14.6	2.000	5.625	CGS413U075V5L
45000	0.012	14.7	2.500	4.125	CGS453U075W4C
55000	0.008	27.4	3.000	8.625	CGS553U075X8L
68000	0.008	20.0	2.500	5.625	CGS683U075W5L
68000	0.005	30.0	3.000	5.625	CGS683U075X5L
90000	0.008	21.3	3.000	5.125	CGS903U075X5C
100000	0.007	23.2	3.000	5.625	CGS104U075X5L
110000	0.007	23.7	3.000	5.875	CGS114U075X5R
140000	0.012	21.3	3.000	8.625	CGS144U075X8L

100 WVDC; 125 VDC Surge

850	0.120	2.5	1.375	2.125	CGS851U100R2C
1200	0.062	3.5	1.375	3.125	CGS122U100R3C
1700	0.069	3.8	1.375	3.125	CGS172U100R3C
2400	0.050	5.0	1.375	4.125	CGS242U100R4C
3100	0.068	4.0	1.375	2.125	CGS312U100R2C
3100	0.036	6.4	1.375	5.125	CGS312U100R5C
4000	0.031	6.2	1.375	4.125	CGS402U100R4C
4000	0.036	7.3	2.000	4.125	CGS402U100V4C

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
4500	0.051	4.8	1.375	2.625	CGS452U100R2L
5900	0.042	5.4	1.375	3.125	CGS592U100R3C
6000	0.033	7.6	2.000	4.125	CGS602U100V4C
8600	0.029	6.5	1.375	4.125	CGS862U100R4C
9000	0.024	10.2	2.000	5.625	CGS902U100V5L
10000	0.040	8.0	2.500	4.125	CGS103U100W4C
12000	0.026	7.7	2.000	3.125	CGS123U100V3C
13000	0.024	7.2	1.375	5.625	CGS133U100R5L
15000	0.036	7.3	2.000	4.125	CGS153U100V4C
15000	0.043	8.6	2.500	5.625	CGS153U100W5L
15000	0.051	7.9	3.000	4.125	CGS153U100X4C
16000	0.019	8.9	1.750	4.125	CGS163U100U4C
18000	0.018	10.5	2.000	4.125	CGS183U100V4C
28000	0.012	14.0	2.000	4.625	CGS283U100V5L
30000	0.011	15.2	2.500	4.125	CGS303U100W4C
33000	0.009	25.0	3.000	8.625	CGS333U100X8L
39000	0.011	15.8	3.000	5.875	CGS393U100X5R
45000	0.010	18.1	3.000	4.125	CGS453U100W5L
46000	0.008	20.1	2.500	5.625	CGS463U100W5L
60000	0.009	20.6	3.000	5.125	CGS603U100X5C
68000	0.008	22.5	3.000	5.625	CGS683U100X5L
74000	0.007	23.3	3.000	5.875	CGS743U100X5R
96000	0.013	20.9	3.000	8.625	CGS963U100X8L

150 WVDC; 175 VDC Surge

400	0.137	2.3	1.375	2.125	CGS401U150R2C
720	0.063	3.5	1.375	3.125	CGS721U150R3C
950	0.087	3.4	1.375	3.125	CGS951U150R3C
1100	0.102	3.2	1.375	2.125	CGS112U150R2C
1100	0.064	4.4	1.375	4.125	CGS112U150R4C
1600	0.071	3.8	1.375	2.625	CGS162U150R2L
2100	0.074	4.3	1.375	3.125	CGS212U150R3C
2400	0.117	3.7	2.000	3.125	CGS242U150V3C
3100	0.038	5.8	1.375	4.125	CGS312U150R4C
3300	0.032	8.4	2.000	5.125	CGS332U150V5C

Capacitance (μF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
3500	0.031	11.4	2.000	5.625	CGS352U150V5L
4400	0.032	7.0	2.000	3.125	CGS442U150V3C
4700	0.026	7.9	1.375	5.625	CGS472U150R5L
4800	0.030	9.5	2.500	4.625	CGS482U150W4L
5300	0.023	8.3	1.750	4.125	CGS532U150U4C
5700	0.037	9.3	3.000	4.125	CGS572U150X4C
6200	0.025	11.4	2.500	5.625	CGS622U150W5L
6700	0.022	9.4	2.000	4.125	CGS672U150U4C
7700	0.029	11.3	3.000	5.125	CGS772U150X5C
8700	0.027	12.5	3.000	5.875	CGS872U150X5R
10000	0.015	12.7	2.000	5.625	CGS103U150V5L
10000	0.034	10.4	3.000	5.125	CGS103U150X5C
11000	0.017	12.1	2.500	4.125	CGS113U150W4C
12000	0.014	16.5	2.000	5.625	CGS123U150V5L
12000	0.013	17.8	3.000	5.625	CGS123U150X5L
17000	0.020	12.7	2.500	5.625	CGS173U150W5L
22000	0.015	15.6	3.000	5.125	CGS223U150X5C
25000	0.012	18.4	3.000	5.625	CGS253U150X5L
26000	0.011	19.1	3.000	5.875	CGS263U150X5R
43000	0.014	19.9	3.000	8.625	CGS433U150X8L

200 WVDC; 250 VDC Surge

590	0.151	2.6	1.375	3.125	CGS591T200R3C
800	0.102	2.7	1.375	2.125	CGS801T200R2C
1000	0.113	3.2	1.375	4.125	CGS102T200R4C
1000	0.097	3.6	2.000	2.125	CGS102T200V2C
1200	0.071	3.5	1.375	2.625	CGS122T200R2L
1400	0.081	4.4	2.000	3.125	CGS142T200V3C
1500	0.054	4.3	1.375	3.125	CGS152T200R3C
1600	0.074	4.6	2.000	3.125	CGS162T200V3C
2000	0.057	5.8	2.000	4.120	CGS202T200V4C
2200	0.038	5.8	1.375	4.125	CGS222T200R4C
2200	0.054	6.0	2.000	4.125	CGS222T200V4C
2700	0.048	6.4	2.000	4.125	CGS272T200V4C
3100	0.032	7.0	2.000	3.125	CGS312T200V3C

Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
3300	0.026	7.9	1.375	5.625	CGS332T200R5L
3300	0.060	6.5	2.500	4.125	CGS332T200W4C
3400	0.076	5.8	2.500	4.125	CGS342T200W4C
3600	0.042	6.7	2.000	4.125	CGS362T200V4C
4000	0.023	8.3	1.750	4.125	CGS402T200U4C
4000	0.062	5.0	2.000	3.125	CGS402T200V3C
4000	0.055	6.8	2.500	4.125	CGS402T200W4C
4600	0.047	8.2	3.000	4.125	CGS462T200X4C
4700	0.021	9.4	2.000	5.625	CGS472T200V4C
4800	0.042	6.8	2.000	4.125	CGS482T200V4C
5000	0.036	9.2	2.500	5.125	CGS502T200W5C
5200	0.021	11.0	2.000	5.625	CGS522T200V5L
5400	0.021	12.6	3.000	4.625	CGS542T200X4L
5500	0.027	10.9	3.000	4.125	CGS552T200X4C
6200	0.039	9.0	3.000	4.125	CGS622T200X4C
7200	0.019	11.5	2.000	5.625	CGS722T200V5L
7400	0.018	15.0	3.000	5.625	CGS742T200X5L
7700	0.018	15.0	3.000	5.625	CGS772T200X5L
7800	0.017	12.1	2.500	4.125	CGS782T200W4C
9400	0.021	12.1	3.000	4.125	CGS942T200X4C
12000	0.013	16.0	2.500	5.625	CGS123T200W5L
14000	0.015	16.1	3.000	5.625	CGS143T200X5L
16000	0.015	15.6	3.000	5.125	CGS163T200X5C
18000	0.012	18.4	3.000	5.625	CGS183T200X5L
18000	0.016	15.9	3.000	5.625	CGS183T200X5L
19000	0.011	19.1	3.000	5.875	CGS193T200X5R
25000	0.015	19.9	3.000	8.625	CGS253T200X8L
30000	0.011	22.7	3.000	8.625	CGS303T200X8L

250 WVDC; 300 VDC Surge

200	0.397	1.6	1.375	2.125	CGS201T250R2C
250	0.318	1.7	1.375	2.125	CGS251T250R2C
470	0.169	2.8	1.375	3.125	CGS471T250R3C
550	0.144	3.3	1.375	4.125	CGS551T250R4C
620	0.128	3.6	1.375	4.125	CGS621T250R4C

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Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
720	0.110	4.1	2.000	3.125	CGS721T250V3C
900	0.088	6.3	3.000	4.125	CGS901T250X4C
1000	0.080	7.6	3.000	5.625	CGS102T250X5L
1200	0.066	4.4	1.375	3.125	CGS122T250R3C
1200	0.066	5.3	2.000	3.125	CGS122T250V3C
1700	0.047	5.9	1.375	4.125	CGS172T250R4C
1700	0.047	5.9	2.000	2.625	CGS172T250V2L
1700	0.047	7.1	2.000	4.125	CGS172T250V4C
1900	0.042	8.6	2.000	5.625	CGS192T250V5L
1900	0.042	8.4	2.500	4.125	CGS192T250W4C
2500	0.032	9.8	2.000	5.625	CGS252T250V5L
2600	0.031	8.3	1.375	5.625	CGS262T250R5L
2800	0.028	9.1	2.000	4.125	CGS282T250V4C
2900	0.027	8.8	2.000	3.625	CGS292T250V3L
2900	0.027	10.9	2.500	4.625	CGS292T250W4L
2900	0.027	11.4	3.000	4.125	CGS292T250X4C
3100	0.026	11.7	3.000	4.125	CGS312T250X4C
3700	0.022	10.5	2.000	4.125	CGS372T250V4C
4100	0.019	11.6	2.000	4.625	CGS412T250V4L
4100	0.019	12.6	2.000	5.625	CGS412T250V5L
4200	0.019	14.3	2.500	5.625	CGS422T250W5L
5600	0.014	14.7	2.000	5.625	CGS562T250V5L
6000	0.013	15.2	2.000	5.625	CGS602T250V5L
6000	0.013	14.9	2.500	4.125	CGS602T250W4C
6000	0.013	18.7	3.000	5.625	CGS602T250X5L
7200	0.011	17.9	3.000	4.125	CGS722T250X4C
7400	0.011	17.2	3.000	3.625	CGS742T250X3L
9000	0.009	20.9	2.500	5.625	CGS902T250W5L
9200	0.009	21.1	2.500	5.625	CGS922T250W5L
10000	0.008	22.1	3.000	4.625	CGS103T250X4L
10000	0.008	24.1	3.000	5.625	CGS103T250X5L
12000	0.007	25.4	3.000	5.125	CGS123T250X5C
13000	0.006	27.5	3.000	5.625	CGS133T250X5L
14000	0.006	28.5	3.000	5.625	CGS143T250X5L
15000	0.005	30.1	3.000	5.875	CGS153T250X5R
19000	0.004	31.0	3.000	8.625	CGS193T250X8L

Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
22000	0.004	32.0	3.000	8.625	CGS223T250X8L

300 WVDC; 350 VDC Surge					
430	0.185	2.3	1.375	2.125	CGS431T300R2C
620	0.129	3.0	1.375	2.625	CGS621T300R2L
810	0.098	3.6	1.375	3.125	CGS811T300R3C
1200	0.067	4.4	1.375	3.125	CGS122T300R3C
1500	0.053	7.5	2.500	4.125	CGS152T300W4C
1600	0.050	6.1	2.000	3.125	CGS162T300V3C
1800	0.044	6.9	1.375	5.625	CGS182T300R5L
2000	0.040	7.2	1.750	4.125	CGS202T300U4C
2500	0.032	8.6	2.000	4.125	CGS252T300V4C
3500	0.023	14.3	3.000	5.625	CGS352T300X5L
3800	0.021	12.1	2.000	5.625	CGS382T300V5L
4000	0.020	15.2	3.000	5.625	CGS402T300X5L
4100	0.019	15.7	3.000	5.875	CGS412T300X5R
4500	0.017	16.2	3.000	5.625	CGS452T300X5L
5800	0.013	16.1	2.500	5.125	CGS582T300W5C
6000	0.013	22.6	3.000	8.625	CGS602T300X8L
6200	0.012	16.6	3.000	4.125	CGS622T300X4C
6300	0.012	17.5	2.500	5.625	CGS632T300W5L
8300	0.009	21.1	3.000	5.125	CGS832T300X5
9400	0.008	23.4	3.000	5.625	CGS942T300X5L
10000	0.008	24.6	3.000	5.875	CGS103T300X5R
15000	0.005	30.0	3.000	8.625	CGS153T300X8L

350 WVDC; 400 VDC Surge					
130	0.6122	1.3	1.375	2.125	CGS131T350R2C
250	0.318	2.0	1.375	3.125	CGS251T350R3C
330	0.241	2.3	1.375	3.125	CGS331T350R3C
380	0.209	2.8	1.375	4.125	CGS381T350R4C
480	0.165	2.6	1.375	2.625	CGS481T350R2L
620	0.128	3.2	1.375	3.125	CGS621T350R3C
650	0.122	3.9	2.000	3.125	CGS651T350V3C
800	0.099	4.9	2.000	4.125	CGS801T350V4C

Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
920	0.086	4.3	1.375	4.125	CGS921T350R4C
1000	0.079	4.5	1.375	4.125	CGS102T350R4C
1000	0.079	4.5	2.000	2.625	CGS102T350V2L
1000	0.079	5.4	2.000	4.125	CGS102T350V4C
1300	0.061	5.5	2.000	3.125	CGS132T350V3C
1300	0.061	7.6	3.000	4.125	CGS132T350X4C
1400	0.056	6.1	1.375	5.625	CGS142T350R5L
1500	0.053	6.2	1.750	4.125	CGS152T350U4C
1500	0.053	7.5	2.500	4.125	CGS152T350W4C
1600	0.049	6.9	2.000	4.125	CGS162T350V4C
1900	0.041	7.5	2.000	4.125	CGS192T350V4C
2100	0.037	10.1	2.500	5.625	CGS212T350W5L
2100	0.037	9.7	3.000	4.125	CGS212T350X4C
2200	0.036	10.3	2.500	5.625	CGS222T350W5L
2400	0.033	8.9	2.000	4.625	CGS242T350V4L
2400	0.033	9.6	2.000	5.625	CGS242T350V5L
2600	0.030	12.3	3.000	5.625	CGS262T350X5L
2700	0.029	9.5	2.500	3.625	CGS272T350W3L
2900	0.027	13.0	3.000	5.625	CGS292T350X5L
3000	0.026	13.5	3.000	5.875	CGS302T350X5R
3200	0.024	10.9	2.500	4.125	CGS322T350W4C
3300	0.024	11.3	2.000	5.625	CGS332T350V5L
3300	0.024	13.8	3.000	5.625	CGS332T350X5L
3400	0.023	14.1	3.000	5.625	CGS342T350X5L
3700	0.021	14.7	3.000	5.625	CGS372T350X5L
3800	0.020	12.5	2.500	4.625	CGS382T350W4L
4000	0.019	11.9	3.000	3.125	CGS402T350X3C
4200	0.018	13.7	3.000	4.125	CGS422T350X4C
4800	0.016	15.2	2.500	5.625	CGS482T350W5L
6100	0.013	22.8	3.000	8.625	CGS612T350X8L
6300	0.012	19.1	3.000	5.625	CGS632T350X5L
6400	0.012	18.5	3.000	5.125	CGS642T350X5C
6900	0.011	24.3	3.000	8.625	CGS692T350X8L
7200	0.011	20.5	3.000	5.625	CGS722T350X5L
7300	0.010	20.6	3.000	5.625	CGS732T350X5L
7900	0.010	21.8	3.000	5.875	CGS792T350X5R

Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
8500	0.009	26.9	3.000	8.625	CGS852T350X8L
10000	0.008	29.2	3.000	8.625	CGS103T350X8L
12000	0.006	32.0	3.000	8.625	CGS123T350X8L

400 WVDC; 450 VDC Surge

290	0.274	1.9	1.375	2.125	CGS291T400R2C
420	0.189	2.4	1.375	2.625	CGS421T400R2L
550	0.144	3.0	1.375	3.125	CGS551T400R3C
780	0.102	4.8	2.000	4.125	CGS781T400V4C
810	0.098	4.1	1.375	4.125	CGS811T400R4C
1100	0.072	5.1	2.000	3.125	CGS112T400V3C
1200	0.066	5.7	1.375	5.625	CGS122T400R5L
1300	0.061	5.8	1.750	4.125	CGS132T400U4C
1700	0.046	7.1	2.000	4.125	CGS172T400V4C
2600	0.030	10.0	2.000	5.625	CGS262T400V5L
2700	0.029	10.0	2.500	4.125	CGS272T400W4C
2800	0.028	10.2	2.500	4.125	CGS282T400W4C
4200	0.018	14.3	2.500	5.625	CGS422T400W5L
4300	0.018	14.4	2.500	5.625	CGS432T400W5L
5700	0.014	17.5	3.000	5.125	CGS572T400X5C
6400	0.012	19.3	3.000	5.625	CGS642T400X5L
7000	0.011	20.6	3.000	5.875	CGS702T400X5R
8500	0.009	24.1	3.000	6.750	CGS852T400X6N
11000	0.007	30.7	3.000	8.625	CGS113T400X8L

450 WVDC; 525 VDC Surge

75	1.061	0.9	1.375	2.125	CGS750T450R2C
100	0.795	1.1	1.375	2.125	CGS101T450R2C
140	0.568	1.5	1.375	3.125	CGS141T450R3C
170	0.468	1.7	1.375	3.125	CGS171T450R3C
210	0.379	2.1	1.375	4.125	CGS211T450R4C
240	0.331	1.7	1.375	2.125	CGS241T450R2C
250	0.318	2.3	1.375	4.125	CGS251T450R4C
320	0.248	2.7	2.000	3.125	CGS321T450V3C

Capacitance (μ F)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
350	0.227	2.2	1.375	2.625	CGS351T450R2L
350	0.227	2.9	1.375	5.125	CGS351T450R5C
400	0.199	3.3	1.375	5.625	CGS401T450R5L
450	0.176	3.3	2.000	3.125	CGS451T450V3C
460	0.173	2.7	1.375	3.125	CGS461T450R3C
480	0.165	3.8	2.000	4.125	CGS481T450V4C
620	0.128	3.6	2.000	2.625	CGS621T450V2L
650	0.122	4.4	2.000	4.125	CGS651T450V4C
680	0.117	3.7	1.375	4.125	CGS681T450R4C
800	0.099	5.1	2.000	4.625	CGS801T450V4L
930	0.085	4.7	2.000	3.125	CGS931T450V3C
970	0.082	5.4	2.000	4.125	CGS971T450V4C
1000	0.079	6.1	2.500	4.125	CGS102T450W4C
1000	0.079	4.7	1.375	4.625	CGS102T450R4L
1000	0.079	5.2	2.000	3.625	CGS102T450V3L
1000	0.079	6.1	2.500	4.125	CGS102T450W4C
1100	0.072	5.3	1.750	4.125	CGS112T450U4C
1100	0.072	7.0	3.000	4.125	CGS112T450X4C
1400	0.056	6.4	2.000	4.125	CGS142T450V4C
1400	0.056	6.8	2.000	4.625	CGS142T450V4L
1400	0.056	7.4	2.000	5.625	CGS142T450V5L
1400	0.056	7.2	2.500	4.125	CGS142T450W4C
1400	0.056	7.9	2.500	5.125	CGS142T450W5C
1500	0.053	8.2	3.000	4.125	CGS152T450X4C
1500	0.053	9.0	3.000	5.125	CGS152T450X5C
1700	0.046	7.5	2.500	3.625	CGS172T450W3L
1800	0.044	8.4	2.000	5.625	CGS182T450V5L
1800	0.044	10.4	3.000	5.875	CGS182T450X5R
1900	0.041	10.5	3.000	5.625	CGS192T450X5L
2000	0.039	10.4	3.000	5.125	CGS202T450X5C
2000	0.039	10.8	3.000	5.625	CGS202T450X5L
2200	0.036	9.2	2.000	5.625	CGS222T450V5L
2200	0.036	9.9	3.000	4.125	CGS222T450X4C
2300	0.034	9.6	3.000	3.625	CGS232T450X3L
2300	0.034	9.2	2.500	4.125	CGS232T450W4C
2400	0.033	9.4	2.500	4.125	CGS242T450W4C

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Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
2400	0.033	9.9	2.500	4.625	CGS242T450W4L
2400	0.033	11.8	3.000	5.625	CGS242T450X5L
2500	0.031	10.0	3.000	3.625	CGS252T450X3L
2700	0.029	10.0	2.500	4.125	CGS272T450W4C
3100	0.025	12.3	2.500	5.625	CGS312T450W5L
3300	0.024	13.8	3.000	5.625	CGS332T450X5L
3500	0.022	13.0	2.500	5.625	CGS352T450W5L
3600	0.022	13.2	2.500	5.625	CGS362T450W5L
3600	0.022	13.3	3.000	4.625	CGS362T450X4L
4600	0.017	16.4	3.000	5.625	CGS462T450X5L
4700	0.016	15.9	3.000	5.125	CGS472T450X5C
5300	0.015	17.6	3.000	5.625	CGS532T450X5L
5800	0.013	18.7	3.000	5.875	CGS582T450X5R
7700	0.010	25.7	3.000	8.625	CGS772T450X8L
9000	0.008	27.7	3.000	8.625	CGS902T450X8L

500 WVDC; 535 VDC Surge					
160	0.497	1.4	1.375	2.125	CGS161T500R2C
240	0.331	1.8	1.375	2.625	CGS241T500R2L
240	0.331	1.9	1.750	2.125	CGS241T500U2C
310	0.256	2.2	1.375	3.125	CGS311T500R3C
310	0.256	2.3	2.000	2.125	CGS311T500V2C
360	0.221	2.5	1.750	2.625	CGS361T500U2L
380	0.209	2.6	1.375	3.625	CGS381T500R3L
450	0.176	3.0	1.375	4.125	CGS451T500R4C
460	0.173	3.1	2.000	2.625	CGS461T500V2L
230	0.346	2.3	1.375	4.625	CGS231T500R4L
600	0.132	3.8	1.375	5.125	CGS601T500R5C
620	0.128	3.8	1.750	3.625	CGS621T500U3L
620	0.128	3.8	2.000	3.125	CGS621T500V3C
670	0.118	4.0	2.000	3.125	CGS671T500V3C
750	0.106	4.5	1.375	5.625	CGS751T500R5L
790	0.100	4.6	2.000	3.625	CGS791T500V3L
880	0.090	5.0	1.750	4.625	CGS881T500U4L
950	0.083	5.3	2.000	4.125	CGS951T500V4C

Capacitance (µF)	Max ESR (Ohms) @120Hz	Max Ripple Amps RMS @120Hz +85°C	Diameter	Length	Part Description
1000	0.079	5.6	1.750	5.125	CGS102T500U5C
1000	0.079	5.4	2.500	3.125	CGS102T500W3C
1100	0.072	6.1	1.750	5.625	CGS112T500U5L
1100	0.072	6.0	2.000	4.625	CGS112T500V4L
1300	0.061	6.8	2.000	5.125	CGS132T500V5C
1300	0.061	6.6	2.500	3.625	CGS132T500W3L
1500	0.053	7.6	2.000	5.625	CGS152T500V5L
1600	0.049	7.7	2.500	4.125	CGS162T500W4C
1800	0.044	8.6	2.500	4.625	CGS182T500W4L
1900	0.041	8.7	3.000	3.625	CGS192T500X3L
2100	0.037	9.7	2.500	5.125	CGS212T500W5C
2300	0.034	10.1	3.000	4.125	CGS232T500X4C
2400	0.033	10.8	2.500	5.625	CGS242T500W5L
2700	0.029	11.2	3.500	3.625	CGS272T500Y3L
2800	0.028	11.7	3.000	4.625	CGS282T500X4L
3200	0.024	13.1	3.000	5.125	CGS322T500X5C
3300	0.024	13.1	3.500	4.125	CGS332T500Y4C
3500	0.022	14.3	3.000	5.625	CGS352T500X5L
4400	0.018	16.6	3.500	5.125	CGS442T500Y5C
4800	0.016	18.0	3.500	5.625	CGS482T500Y5L
6000	0.013	22.6	3.000	8.625	CGS602T500X8L
8300	0.009	28.8	3.500	8.625	CGS832T500Y8L