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

Mallory Catalog Number	CGS	184	U	010 ▼	X3L	(3	P	H) ❇

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

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) M = ±20%
T = -10% + 50% (151 to 450 VDC) X = -10% +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 chart on next page

INSULATING SLEEVE:
0 = No sleeve
1 = Mylar (Polyester)
3 = Red PVC - .008" thickness (Standard)
6 = Black PVC - .008" thickness
7 = Double .008" Red PVC (.016" total thickness)
8 = Blue PVC - .012" thickness
9 = Black PVC - .012" thickness

POLARITY:
P = 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)

NOTE: ❇ Mallory maintains a 15 digit maximum for its part numbering system.
Most parts shown in the General Catalog have PVC sleeving and are polar, with high post terminals.
The 3PH is left off the part number, but is assumed.

Type CGO 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.

▼ Non-standard part numbers may require coding of the voltage to properly describe the part within the 15 digit limit.
Voltage codes are shown below.

Contact sales@duracap.com if help is needed to properly set up a non-standard part number.

Voltage	Code
5	A
6.3	B
7.5	C
10	D
12	E

Voltage	Code
15-16	F
20	G
25	H
28	I
30	J

Voltage	Code
35	K
40	L
45	M
50	N
55	O

Voltage	Code
60-63	P
75	Q
80	R
100	S
150	T

Voltage	Code
200	U
250	V
300	W
350	X
400	Y

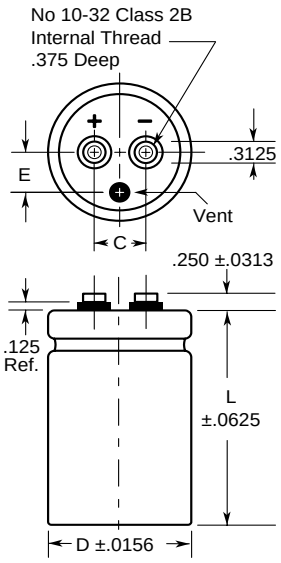
Voltage	Code
450	Z
500	ZZ

Case Code Chart

Uninsulated Can

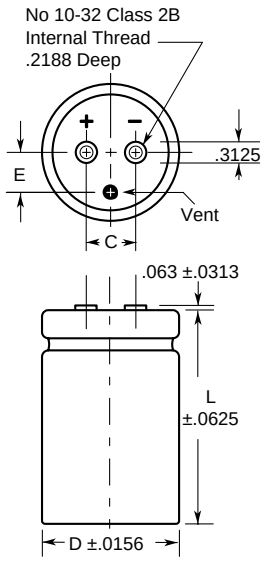
Case Code	Inches D	Inches L	mm D	mm L	Inches C	mm C	Mounting Bracket
R2C	1.375	2.125	35	54	.500	12.7	VR3
R2L	1.375	2.625	35	67	.500	12.7	VR3
R3C	1.375	3.125	35	79.4	.500	12.7	VR3
R3L	1.375	3.625	35	92	.500	12.7	VR3
R4C	1.375	4.125	35	105	.500	12.7	VR3
R4L	1.375	4.625	35	117.5	.500	12.7	VR3
R5C	1.375	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	22.2	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

High Post (H) (Standard)



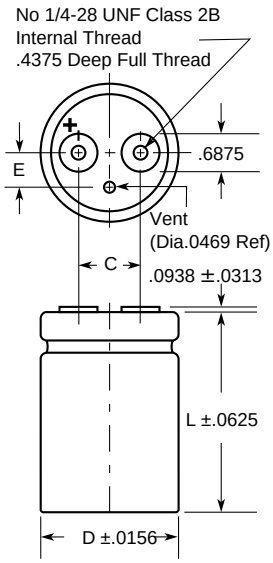
Can Dia	E
1.375	.390
1.750	.453
2.000	.500
2.500	.625
3.000	.750
3.500	.750

Low Post (L)



Can Dia	E
1.375	.390
1.750	.453
2.000	.500
2.500	.625
3.000	.750
3.500	.750

Low Resistance (D)



Can Dia	E
1.375	.390
1.750	.453
2.000	.500
2.500	.625
3.000	.750
3.500	.750

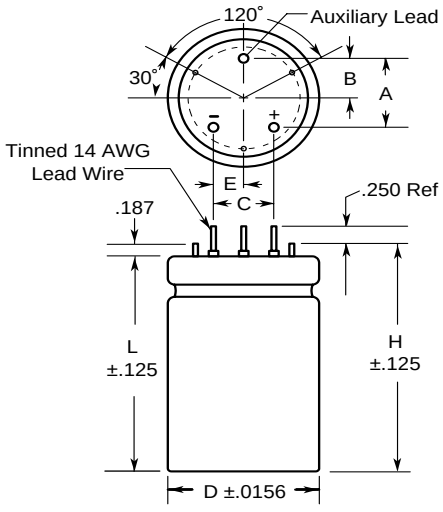
Add .015 inches to diameter and .045 inches to length for PVC insulating sleeve.

PC Mounting Board Dimensions

Uninsulated Can

Case Code	Inches D	Inches L	Inches H	Inches A	Inches B	Inches C	Inches 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	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 - 2500μF R = 1000Ω
C = 2500 - 25kμF R = 500Ω
C = ≥25,001μF R = 100Ω
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. Seperate capacitors to maintain temperature -0°C +3°C. Apply rated VDC for rated life ±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 ±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 1000Ω 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.

MALLORY Type CGS by DuraCap International Inc.
Computer Grade 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:
75μF to 1,500,000μF

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

DC Leakage Current:
$I = .006\sqrt{CV}$ after 30 minutes
Not to exceed 6mA
C = Capacitance in μF
V = Rated Voltage
I = Leakage Current in mA

QA Stability Test:
Apply WVDC for 1,000 hrs at 85°C

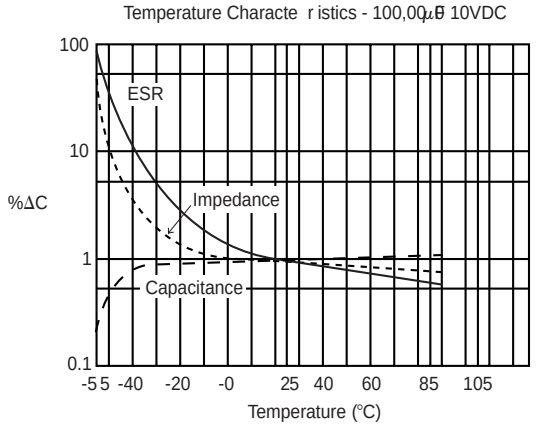
- Capacitance change ≤10% from initial limits
- DC leakage current meets initial limits
- ESR ≤ 175% of initial measured value

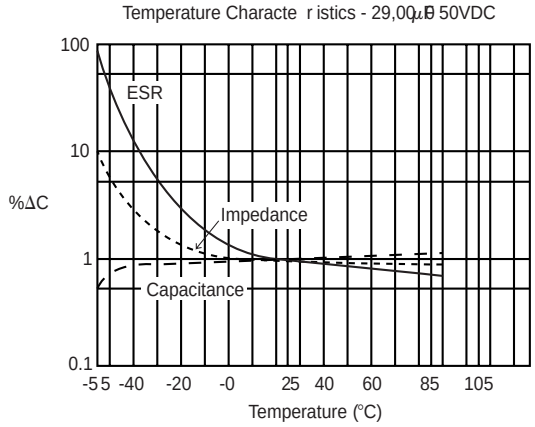
The maximum ripple current at 85°C and 120 Hz for CGS capacitors is shown in the Standard Rating Table. Maximum ripple current may be adjusted by the multipliers in the following tables:

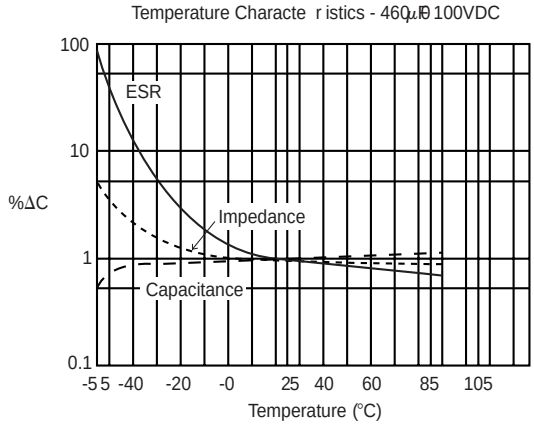
Rated WVDC	Ripple Multipliers				
	60 Hz	120 Hz	400 Hz	1000Hz	2500KHz
3 to 50	0.8	1.0	1.05	1.10	1.14
51 to 150	0.8	1.0	1.08	1.13	1.16
151 & Up	0.8	1.0	1.15	1.21	1.25

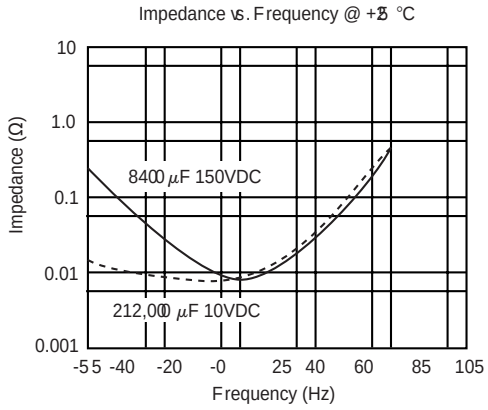
Ambient Temperature	Ripple Multiplier
+85°C	1.00
+75°C	1.4
+65°C	1.7
+55°C	2.0
+45°C	2.2

Typical Performance









Aluminum Capacitors

MALLORY Type CGS by DuraCap International Inc.
Computer Grade Capacitors

6.3 WVDC; 8 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
73,000	0.023	8.0	1.375	1.625	CGS733U6R3R2L
95,000	0.014	10.4	1.375	3.125	CGS953U6R3R3C
140,000	0.011	11.2	1.375	4.125	CGS144U6R3R4C
190,000	0.013	12.6	2.000	3.125	CGS194U6R3V3C
210,000	0.011	10.9	1.375	5.625	CGS214U6R3R5L
230,000	0.009	13.1	1.750	4.125	CGS234U6R3U4C
300,000	0.010	14.7	2.000	4.125	CGS304U6R3V4C
310,000	0.007	16.9	2.000	5.625	CGS314U6R3V5L
480,000	0.007	19.6	2.500	4.125	CGS484U6R3W4C
500,000	0.005	22.9	2.500	5.625	CGS504U6R3W5L
670,000	0.006	20.7	3.000	4.125	CGS674U6R3X4C
900,000	0.005	23.5	3.000	5.125	CGS904U6R3X5C
1,000,000	0.005	24.5	3.000	5.625	CGS105U6R3X5L
1,100,000	0.004	24.7	3.000	5.875	CGS115U6R3X5R

7.5 WVDC; 9 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
49,000	0.030	6.7	1.375	2.125	CGS493U7R5R2C
71,000	0.023	7.9	1.375	2.625	CGS713U7R5R2L
92,000	0.019	8.8	1.375	3.125	CGS923U7R5R3C
140,000	0.014	10.3	1.375	4.125	CGS144U7R5R4C
190,000	0.013	12.5	2.000	3.125	CGS194U7R5V3C
200,000	0.012	10.8	1.375	5.625	CGS204U7R5R5L
220,000	0.010	13.1	1.750	4.125	CGS224U7R5U4C
290,000	0.010	14.6	2.000	4.125	CGS294U7R5V4C
440,000	0.007	16.8	2.000	5.625	CGS444U7R5V5L
470,000	0.007	19.5	2.500	4.125	CGS474U7R5W4C
650,000	0.005	24.4	3.000	4.125	CGS654U7R5W5L
710,000	0.005	22.8	2.500	5.625	CGS714U7R5W5L
870,000	0.005	23.4	3.000	5.125	CGS874U7R5X5C
980,000	0.005	24.4	3.000	5.625	CGS984U7R5X5L
1,000,000	0.004	24.7	3.000	5.875	CGS105U7R5X5R

10 WVDC; 12 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
7,200	0.035	4.5	1.375	2.125	CGS722U010R2C
12,000	0.034	4.6	1.375	2.125	CGS123U010R2C
14,000	0.030	4.9	1.375	2.125	CGS143U010R2C
18,000	0.078	3.1	1.375	2.125	CGS183U010R2C
20,000	0.025	5.9	1.375	2.625	CGS203U010R2L
26,000	0.020	7.0	1.375	3.125	CGS263U010R3C
33,000	0.018	7.4	1.375	3.125	CGS333U010R3C
43,000	0.030	6.7	1.375	2.125	CGS433U010R2C
44,000	0.013	9.4	2.000	2.125	CGS443U010V2C
62,000	0.023	7.9	1.375	2.625	CGS623U010R2L
81,000	0.019	8.8	1.375	3.125	CGS813U010R3C
94,000	0.007	16.3	2.000	4.125	CGS943U010V4C
110,000	0.008	16.7	2.500	3.625	CGS114U010W3L
120,000	0.014	10.3	1.375	4.125	CGS124U010R4C
170,000	0.013	12.5	2.000	3.125	CGS174U010V3C
180,000	0.012	10.8	1.375	3.625	CGS184U010R5L
200,000	0.010	13.1	1.750	4.125	CGS204U010U4C
250,000	0.010	14.6	2.000	4.125	CGS254U010V4C
390,000	0.007	16.8	2.000	5.625	CGS394U010V5L
410,000	0.007	19.5	2.500	4.125	CGS414U010W4C
580,000	0.006	20.6	3.000	4.125	CGS584U010W5L
630,000	0.005	22.8	2.500	5.625	CGS634U010W5L
780,000	0.005	23.4	3.000	5.125	CGS784U010X5C
880,000	0.050	24.4	3.000	5.625	CGS884U010X5L
920,000	0.005	24.7	3.000	5.875	CGS924U010X5R

16 WVDC; 20 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
5,500	0.037	4.4	1.375	2.125	CGS552U016R2C
8,900	0.034	4.6	1.375	2.125	CGS892U016R2C

16 WVDC; 20 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
10,000	0.033	4.7	1.375	2.125	CGS103U016R2C
10,000	0.024	6.4	1.375	3.125	CGS103U016R3C
12,000	0.031	4.8	1.375	2.125	CGS123U016R2C
15,000	0.026	5.6	1.375	2.625	CGS153U016R2L
15,000	0.061	4.5	1.375	4.125	CGS153U016R4C
17,000	0.022	6.7	1.375	3.125	CGS173U016R3C
19,000	0.021	6.8	1.375	3.125	CGS193U016R3C
21,000	0.037	5.5	1.375	3.625	CGS213U016R3L
22,000	0.027	7.6	2.000	3.125	CGS233U016V3C
24,000	0.032	5.6	1.375	3.125	CGS243U016R3C
25,000	0.016	8.8	1.375	4.125	CGS253U016R4C
25,000	0.031	6.1	2.000	2.125	CGS253U016V2C
33,000	0.020	7.9	1.375	4.125	CGS333U016R4C
33,000	0.028	6.5	2.000	2.125	CGS333U016V2C
34,000	0.020	9.8	1.375	4.125	CGS343U016R4C
34,000	0.016	8.8	2.000	4.125	CGS343U016V4C
35,000	0.030	6.7	1.375	2.125	CGS353U016R2C
38,000	0.019	9.4	1.375	3.125	CGS383U016R3C
38,000	0.021	8.6	2.000	3.125	CGS383U016V3C
49,000	0.023	7.9	1.375	2.625	CGS493U016R2L
50,000	0.011	11.7	2.000	3.125	CGS503U016V3C
55,000	0.018	9.6	2.000	3.625	CGS553U016R3L
55,000	0.015	10.2	1.375	3.625	CGS553U016V3L
62,000	0.019	8.8	1.375	3.125	CGS623U016R3C
66,000	0.012	11.6	1.375	4.125	CGS663U016R4C
66,000	0.017	10.8	2.000	4.125	CGS663U016V4C
68,000	0.017	9.5	2.000	3.125	CGS683U016V3C
68,000	0.008	15.2	2.000	4.125	CGS703U016V4C
77,000	0.015	11.8	2.000	4.625	CGS773U016V4L
80,000	0.009	18.9	3.000	4.125	CGS803U016X4C
83,000	0.015	12.9	2.000	5.625	CGS833U016V5L
90,000	0.014	10.3	1.375	4.125	CGS903U016R4C
91,000	0.009	14.7	2.000	4.125	CGS913U016V4C
100,000	0.007	22.5	3.000	5.125	CGS104U016X5C
110,000	0.010	16.0	2.500	4.125	CGS114U016W4C
120,000	0.007	20.1	3.000	3.625	CGS124U016V4C
130,000	0.010	12.6	1.375	5.625	CGS134U016R5L
130,000	0.011	12.5	2.000	3.125	CGS134U016V3C
130,000	0.009	17.6	2.500	4.625	CGS134U016W4L
150,000	0.007	19.3	3.000	4.125	CGS154U016X5L
160,000	0.010	13.1	1.750	4.125	CGS164U016U4C
170,000	0.004	23.5	2.000	4.125	CGS174U016V4C
180,000	0.006	24.3	3.000	4.625	CGS184U016X4L
190,000	0.007	19.5	2.000	4.125	CGS194U016V4C
210,000	0.005	29.2	3.000	5.875	CGS214U016X5R
220,000	0.005	25.2	3.000	4.125	CGS224U016X4C
260,000	0.003	29.8	2.000	5.625	CGS264U016V5L
290,000	0.005	21.1	2.000	5.625	CGS294U016V5L
310,000	0.005	22.7	2.500	4.125	CGS314U016W4C
470,000	0.004	30.4	2.500	5.625	CGS474U016W5L
620,000	0.004	32.3	3.000	5.125	CGS624U016X5C
640,000	0.002	44.9	3.000	5.625	CGS644U016X5L
640,000	0.002	30.0	3.000	5.625	CGS644UFX5L3PD
700,000	0.003	35.0	3.000	5.625	CGS704U016X5L
740,000	0.003	35.8	3.000	5.875	CGS744U016X5R
980,000	0.007	23.8	3.000	8.625	CGS984U016X8L

20 WVDC; 22 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
250,000	0.006	29.0	3.000	3.625	CGS254U020X3L
500,000	0.004	37.0	3.000	5.625	CGS505U020X5L
1,000,000	0.003	41.0	3.000	8.625	CGS105UGX8L6PD
1,000,000	0.003	41.0	3.000	8.625	CGS105UGX8L6PH
1,000,000	0.003	40.0	3.000	5.875	CGS106U020X5R
1,500,000	0.003	41.0	3.000	8.625	CGS156U020X8L

MALLORY Type CGS by DuraCap International Inc.
Computer Grade Capacitors

MALLORY

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

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

MALLORY Type CGS by DuraCap International Inc.
Computer Grade Capacitors

40 WVDC; 50 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
49,000	0.013	11.0	1.375	5.625	CGS493U040R5L
53,000	0.008	21.5	3.000	5.125	CGS533U040X5C
55,000	0.011	16.9	2.500	5.625	CGS553U040W5L
61,000	0.011	11.4	1.750	4.125	CGS613U040U4C
68,000	0.012	16.0	3.000	4.125	CGS683U040X4C
71,000	0.010	14.0	2.000	4.125	CGS713U040V4C
78,000	0.009	22.7	3.000	6.625	CGS783U040X6L
110,000	0.007	18.6	2.000	5.625	CGS114U040V5L
120,000	0.006	20.0	2.500	4.125	CGS124U040W4C
150,000	0.003	36.6	3.000	5.625	CGS154U040X5L
150,000	0.003	30.0	3.000	5.625	CGS154ULX5L3PD
180,000	0.005	27.0	2.500	5.625	CGS184U040W5L
230,000	0.004	29.5	3.000	5.125	CGS234U040X5C
260,000	0.004	32.1	3.000	5.625	CGS264U040X5L
280,000	0.004	32.7	3.000	5.875	CGS284U040X5R
430,000	0.003	45.6	3.000	8.625	CGS434U040X8L

50 WVDC; 65 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
1,600	0.048	3.9	1.375	2.125	CGS162U050R2C
2,200	0.044	4.1	1.375	2.125	CGS222U050R2C
2,900	0.030	5.7	1.375	3.125	CGS292U050R3C
3,000	0.040	4.3	1.375	2.125	CGS302U050R2C
3,300	0.182	2.0	1.375	2.125	CGS332U050R2C
4,100	0.022	7.6	1.375	3.125	CGS412U050R3C
4,300	0.022	7.6	1.375	4.125	CGS432U050R4C
4,900	0.023	7.0	1.375	3.625	CGS492U050R3L
5,000	0.026	6.1	1.375	3.125	CGS502U050R3C
5,700	0.096	3.2	1.375	3.125	CGS572U050R3C
6,100	0.020	7.9	1.375	4.125	CGS612U050R4C
6,500	0.025	7.9	2.000	3.125	CGS652U050V3C
6,700	0.022	7.2	1.375	3.625	CGS672U050R3L
6,800	0.024	6.4	1.375	3.125	CGS682U050R3C
7,500	0.019	8.1	1.375	4.125	CGS752U050R4C
8,000	0.043	5.2	2.000	2.125	CGS802U050V2C
9,600	0.036	5.6	1.375	2.125	CGS962U050R2C
9,600	0.018	10.3	2.000	4.125	CGS962U050V4C
10,000	0.017	8.5	1.375	4.125	CGS103U050R4C
10,000	0.049	4.9	2.000	2.125	CGS103U050V2C
12,000	0.014	10.7	1.375	5.625	CGS123U050R5L
13,000	0.027	6.7	1.375	2.625	CGS133U050R2L
13,000	0.031	6.2	1.375	3.125	CGS133U050R3C
13,000	0.029	7.3	2.000	3.125	CGS133U050V3C
14,000	0.031	7.1	2.000	5.625	CGS143U050V5L
14,500	0.022	7.3	2.000	3.125	CGS1452U50V3C
15,000	0.019	10.0	2.000	4.125	CGS153U050V4C
17,000	0.022	7.5	1.375	3.125	CGS173U050R3C
18,000	0.034	6.8	2.000	3.125	CGS183U050V3C
20,000	0.019	8.2	1.375	4.125	CGS203U050R4C
20,000	0.021	9.5	2.000	4.125	CGS203U050V4C
20,000	0.014	13.2	2.000	5.625	CGS203U050V5L
24,000	0.014	12.1	2.500	3.125	CGS243U050W3C
25,000	0.016	8.9	1.375	4.125	CGS253U050R4C
25,000	0.021	9.8	1.750	4.125	CGS253U050U4C
25,000	0.024	10.2	2.500	4.125	CGS253U050W4C
27,000	0.022	9.3	2.000	4.125	CGS273U050V4C
28,000	0.018	11.4	2.000	5.125	CGS283U050V5C
30,000	0.016	12.4	2.000	5.625	CGS303U050V5L
31,000	0.028	9.6	2.500	4.125	CGS313U050W4C
33,000	0.025	10.0	2.500	4.125	CGS333U050W4C
35,000	0.016	10.5	2.000	3.125	CGS353U050V3C
37,000	0.012	11.8	1.375	5.625	CGS373U050R5L
41,000	0.009	19.2	3.000	4.625	CGS413U050X4L
43,000	0.023	12.7	3.000	5.125	CGS433U050X5C
45,000	0.012	11.0	1.750	4.125	CGS453U050U4C

50 WVDC; 65 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
48,000	0.012	16.2	3.000	4.125	CGS483U050X4C
50,000	0.008	20.4	2.500	5.625	CGS503U050W5L
51,000	0.010	18.4	3.000	5.875	CGS513U050X5R
53,000	0.011	13.3	2.000	4.125	CGS533U050V4C
56,000	0.005	23.1	3.000	3.625	CGS563U050X3L
60,000	0.010	19.8	3.000	5.125	CGS603U050X5C
68,000	0.017	15.0	3.000	4.125	CGS683U050X4C
70,000	0.016	15.7	3.000	5.625	CGS703U050X5L
79,000	0.008	17.7	2.000	5.625	CGS793U050V5L
82,000	0.004	29.2	3.000	4.125	CGS823U050X4C
87,000	0.007	19.1	2.500	4.125	CGS873U050W4C
100,000	0.007	29.3	3.000	8.625	CGS104U050X8L
120,000	0.003	36.6	3.000	5.625	CGS124U050X5L
120,000	0.003	30.0	3.000	5.625	CGS124UNX5L3PD
130,000	0.005	25.8	2.500	5.625	CGS134U050W5L
190,000	0.004	31.0	3.000	5.625	CGS194U050X5L
210,000	0.004	31.6	3.000	5.875	CGS214U050X5R
320,000	0.006	30.7	3.000	8.625	CGS324U050X8L

63 WVDC; 75 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
6,100	0.043	5.0	1.375	2.125	CGS612U063R2C
8,900	0.032	6.0	1.375	2.625	CGS892U063R2L
12,000	0.027	6.7	1.375	3.125	CGS123U063R3C
14,000	0.019	8.1	1.375	4.125	CGS143U063R4C
19,000	0.021	9.2	2.000	3.125	CGS193U063V3C
20,000	0.015	9.3	1.375	5.625	CGS203U063R5L
28,000	0.014	10.3	1.750	4.125	CGS284U063U4C
36,000	0.014	11.5	2.000	4.125	CGS363U063V4C
55,000	0.010	14.6	2.000	5.625	CGS553U063V5L
60,000	0.010	15.6	2.500	4.125	CGS603U063W4C
89,000	0.010	18.0	3.000	4.125	CGS893U063W5L
91,000	0.007	20.0	2.500	5.625	CGS913U063W5L
120,000	0.007	21.3	3.000	5.125	CGS124U063X5C
140,000	0.007	23.2	3.000	5.625	CGS144U063X5L
150,000	0.007	23.7	3.000	5.875	CGS154U063X5R
210,000	0.012	21.3	3.000	8.625	CGS214U063X8L

75 WVDC; 95 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
820	0.591	1.1	1.375	2.125	CGS821U075R2C
1,500	0.041	4.9	1.375	3.125	CGS152U075R3C
2,100	0.036	5.3	1.375	3.125	CGS212U075R3C
2,200	0.041	4.2	1.375	2.125	CGS222U075R2C
2,300	0.028	6.6	1.375	4.125	CGS232U075R4C
2,500	0.096	3.2	1.375	4.125	CGS252U075R4C
2,900	0.032	5.6	1.375	3.125	CGS292U075R3C
3,300	0.120	2.9	1.375	3.125	CGS332U075R3C
4,200	0.023	7.4	1.375	4.125	CGS422U075R4C
4,800	0.031	6.7	1.375	3.125	CGS482U075R3C
4,800	0.030	7.2	2.000	3.125	CGS482U075V3C
5,000	0.058	4.4	1.375	2.125	CGS502U075R2C
5,600	0.021	7.8	1.375	4.125	CGS562U075R4C
6,300	0.017	9.8	1.375	5.625	CGS632U075R5L
7,000	0.044	5.3	1.375	2.625	CGS702U075R2L
7,100	0.022	9.5	2.000	4.125	CGS712U075V4C
7,300	0.078	4.5	2.000	3.125	CGS732U075V3C
7,500	0.017	12.3	2.000	5.625	CGS752U075V5L
9,000	0.036	5.9	1.375	3.125	CGS902U075R3C
10,000	0.029	5.8	1.375	3.125	CGS103U075R3C
10,000	0.041	6.2	2.000	3.125	CGS103U075V3C
10,000	0.024	9.0	2.000	4.125	CGS103U075V4C
12,000	0.021	7.6	1.375	4.125	CGS123U075R4C
12,000	0.026	8.7	2.000	4.125	CGS123U075V4C
13,000	0.026	7.2	1.375	4.125	CGS133U075R4C

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75 WVDC; 95 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
15,000	0.018	11.9	2.000	5.625	CGS153U075V5L
17,000	0.033	8.8	2.500	4.125	CGS173U075W4C
17,000	0.033	9.8	3.000	4.125	CGS173U075X4C
18,000	0.023	8.9	2.000	3.125	CGS183U075V3C
18,000	0.009	14.5	2.000	4.125	CGS183U075V4C
19,000	0.019	7.8	1.375	5.625	CGS193U075R5L
23,000	0.017	9.8	1.750	4.125	CGS233U075U4C
25,000	0.039	9.0	3.000	4.125	CGS253U075X4C
25,000	0.024	11.7	2.500	5.625	CGS253U075W5L
25,000	0.014	15.0	3.000	4.125	CGS253U075X4C
26,000	0.028	10.3	2.000	4.125	CGS263U075V4C
26,000	0.037	10.6	3.000	5.875	CGS263U075X5R
27,000	0.016	11.0	2.000	4.125	CGS273U075V4C
27,000	0.019	12.5	3.000	3.625	CGS273U075X3L
33,000	0.019	12.7	3.000	4.125	CGS333U075X4C
37,000	0.011	16.4	2.000	5.625	CGS373U075V5L
37,000	0.010	19.7	3.000	5.625	CGS373U075X5L
41,000	0.011	14.6	2.000	5.625	CGS413U075V5L
45,000	0.012	14.7	2.500	4.125	CGS453U075W4C
55,000	0.008	27.4	3.000	8.625	CGS553U075X8L
68,000	0.008	20.0	2.500	5.625	CGS683U075W5L
68,000	0.005	30.0	3.000	5.625	CGS683U075X5L
90,000	0.008	21.3	3.000	5.125	CGS903U075X5C
100,000	0.007	23.2	3.000	5.625	CGS104U075X5L
110,000	0.007	23.7	3.000	5.875	CGS114U075X5R
140,000	0.012	21.3	3.000	8.625	CGS144U075X8L

100 WVDC; 125 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
850	0.120	2.5	1.375	2.125	CGS851U100R2C
1,200	0.062	3.5	1.375	3.125	CGS122U100R3C
1,700	0.069	3.8	1.375	3.125	CGS172U100R3C
2,400	0.050	5.0	1.375	4.125	CGS242U100R4C
3,100	0.068	4.0	1.375	2.125	CGS312U100R2C
3,100	0.036	6.4	1.375	5.125	CGS312U100R5C
4,000	0.031	6.2	1.375	4.125	CGS402U100R4C
4,000	0.036	7.3	2.000	4.125	CGS402U100V4C
4,500	0.051	4.8	1.375	2.625	CGS452U100R2L
5,900	0.042	5.4	1.375	3.125	CGS592U100R3C
6,000	0.033	7.6	2.000	4.125	CGS602U100V4C
8,600	0.029	6.5	1.375	4.125	CGS862U100R4C
9,000	0.024	10.2	2.000	5.625	CGS902U100V5L
10,000	0.040	8.0	2.500	4.125	CGS103U100W4C
12,000	0.026	7.7	2.000	3.125	CGS123U100V3C
13,000	0.024	7.2	1.375	5.625	CGS133U100R5L
15,000	0.036	7.3	2.000	4.125	CGS153U100V4C
15,000	0.043	8.6	2.500	5.625	CGS153U100W5L
15,000	0.051	7.9	3.000	4.125	CGS153U100X4C
16,000	0.019	8.9	1.750	4.125	CGS163U100U4C
18,000	0.018	10.5	2.000	4.125	CGS183U100V4C
28,000	0.012	14.0	2.000	4.625	CGS283U100V5L
30,000	0.011	15.2	2.500	4.125	CGS303U100W4C
33,000	0.009	25.0	3.000	8.625	CGS333U100X8L
39,000	0.011	15.8	3.000	5.875	CGS393U100X5R
45,000	0.010	18.1	3.000	4.125	CGS453U100W5L
46,000	0.008	20.1	2.500	5.625	CGS463U100W5L
60,000	0.009	20.6	3.000	5.125	CGS603U100X5C
68,000	0.008	22.5	3.000	5.625	CGS683U100X5L
74,000	0.007	23.3	3.000	5.875	CGS743U100X5R
96,000	0.013	20.9	3.000	8.625	CGS963U100X8L

150 WVDC; 175 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
400	0.137	2.3	1.375	2.125	CGS401U150R2C
720	0.063	3.5	1.375	3.125	CGS721U150R3C

150 WVDC; 175 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
950	0.087	3.4	1.375	3.125	CGS951U150R3C
1,100	0.102	3.2	1.375	2.125	CGS112U150R2C
1,100	0.064	4.4	1.375	4.125	CGS112U150R4C
1,600	0.071	3.8	1.375	2.625	CGS162U150R2L
2,100	0.074	4.3	1.375	3.125	CGS212U150R3C
2,400	0.117	3.7	2.000	3.125	CGS242U150V3C
3,100	0.038	5.8	1.375	4.125	CGS312U150R4C
3,300	0.032	8.4	2.000	5.125	CGS332U150V5C
3,500	0.031	11.4	2.000	5.625	CGS352U150V5L
4,400	0.032	7.0	2.000	3.125	CGS442U150V3C
4,700	0.026	7.9	1.375	5.625	CGS472U150R5L
4,800	0.030	9.5	2.500	4.625	CGS482U150W4L
5,300	0.023	8.3	1.750	4.125	CGS532U150U4C
5,700	0.037	9.3	3.000	4.125	CGS572U150X4C
6,200	0.025	11.4	2.500	5.625	CGS622U150W5L
6,700	0.022	9.4	2.000	4.125	CGS672U150U4C
7,700	0.029	11.3	3.000	5.125	CGS772U150X5C
8,700	0.027	12.5	3.000	5.875	CGS872U150X5R
10,000	0.015	12.7	2.000	5.625	CGS103U150V5L
10,000	0.034	10.4	3.000	5.125	CGS103U150X5C
11,000	0.017	12.1	2.500	4.125	CGS113U150W4C
12,000	0.014	16.5	2.000	5.625	CGS123U150V5L
12,000	0.013	17.8	3.000	5.625	CGS123U150X5L
17,000	0.020	12.7	2.500	5.625	CGS173U150W5L
22,000	0.015	15.6	3.000	5.125	CGS223U150X5C
25,000	0.012	18.4	3.000	5.625	CGS253U150X5L
26,000	0.011	19.1	3.000	5.875	CGS263U150X5R
43,000	0.014	19.9	3.000	8.625	CGS433U150X8L

200 WVDC; 250 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
590	0.151	2.6	1.375	3.125	CGS591T200R3C
800	0.102	2.7	1.375	2.125	CGS801T200R2C
1,000	0.113	3.2	2.000	2.125	CGS102T200R4C
1,000	0.097	3.6	1.375	4.125	CGS102T200V2C
1,200	0.071	3.5	1.375	2.625	CGS122T200R2L
1,400	0.081	4.4	2.000	3.125	CGS142T200V3C
1,500	0.054	4.3	1.375	3.125	CGS152T200R3C
1,600	0.074	4.6	2.000	3.125	CGS162T200V3C
2,000	0.057	5.8	2.000	4.120	CGS202T200V4C
2,200	0.038	5.8	1.375	4.125	CGS222T200R4C
2,200	0.054	6.0	2.000	4.125	CGS222T200V4C
2,700	0.048	6.4	2.000	4.125	CGS272T200V4C
3,100	0.032	7.0	2.000	3.125	CGS312T200V3C
3,300	0.026	7.9	1.375	5.625	CGS332T200R5L
3,300	0.060	6.5	2.500	4.125	CGS332T200W4C
3,400	0.076	5.8	2.500	4.125	CGS342T200W4C
3,600	0.042	6.7	2.000	4.125	CGS362T200V4C
4,000	0.023	8.3	1.750	4.125	CGS402T200U4C
4,000	0.062	5.0	2.000	3.125	CGS402T200V3C
4,000	0.055	6.8	2.500	4.125	CGS402T200W4C
4,600	0.047	8.2	3.000	4.125	CGS462T200X4C
4,700	0.021	9.4	2.000	5.625	CGS472T200V4C
4,800	0.042	6.8	2.000	4.125	CGS482T200V4C
5,000	0.036	9.2	2.500	5.125	CGS502T200W5C
5,200	0.021	11.0	2.000	5.625	CGS522T200V5L
5,400	0.021	12.6	3.000	4.625	CGS542T200X4L
5,500	0.027	10.9	3.000	4.125	CGS552T200X4C
6,200	0.039	9.0	3.000	4.125	CGS622T200X4C
7,200	0.019	11.5	2.000	5.625	CGS722T200V5L
7,400	0.018	15.0	3.000	5.625	CGS742T200X5L
7,700	0.018	15.0	3.000	5.625	CGS772T200X5L
7,800	0.017	12.1	2.500	4.125	CGS782T200W4C
9,400	0.021	12.1	3.000	4.125	CGS942T200X4C
12,000	0.013	16.0	2.500	5.625	CGS123T200W5L

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

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

MALLORY Type CGS by DuraCap International Inc.
Computer Grade Capacitors

MALLORY

400 WVDC; 450 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
1,700	0.060	5.7	2.000	4.125	CGS172T400V4C
2,600	0.040	7.8	2.000	5.625	CGS262T400V5L
2,800	0.042	7.8	2.500	4.125	CGS282T400W4C
4,200	0.035	9.6	3.000	4.125	CGS422T400W5L
4,300	0.028	10.8	2.500	5.625	CGS432T400W5L
5,700	0.026	11.9	3.000	5.125	CGS572T400X5C
6,400	0.024	13.0	3.000	5.625	CGS642T400X5L
7,000	0.022	13.5	3.000	5.875	CGS702T400X5R
11,000	0.015	19.8	3.000	8.265	CGS113T400X8L

450 WVDC; 525 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
75	0.835	0.9	1.375	2.125	CGS750T450R2C
100	0.737	1.0	1.375	2.125	CGS101T450R2C
140	0.496	1.4	1.375	3.125	CGS141T450R3C
170	0.456	1.5	1.375	3.125	CGS171T450R3C
210	0.332	1.9	1.375	4.125	CGS211T450R4C
240	0.416	1.3	1.375	2.125	CGS241T450R2C
250	0.308	2.0	1.375	4.125	CGS251T450R4C
320	0.253	2.5	2.000	3.125	CGS321T450V3C
350	0.288	1.7	1.375	2.625	CGS351T450R2L
350	0.226	3.2	1.375	5.125	CGS351T450R5C
400	0.198	2.9	1.375	5.625	CGS401T450R5L
450	0.188	2.9	2.000	3.125	CGS451T450V3C
460	0.221	2.1	1.375	3.125	CGS461T450R3C
480	0.171	3.4	2.000	4.125	CGS481T450V4C
620	0.201	2.6	2.000	2.625	CGS621T450V2L
650	0.154	3.7	2.000	4.125	CGS651T450V4C
680	0.151	2.9	1.375	4.125	CGS681T450R4C
800	0.108	4.4	2.000	4.625	CGS801T450V4L
930	0.116	3.7	2.000	3.125	CGS931T450V3C
970	0.096	4.5	2.000	4.125	CGS971T450V4C
1,000	0.103	4.0	1.375	5.625	CGS102T450R5L
1,000	0.100	4.1	2.000	3.625	CGS102T450V3L
1,000	0.082	5.5	2.500	4.125	CGS102T450W4C
1,100	0.094	4.1	1.750	4.125	CGS112T450U4C
1,100	0.076	6.5	3.000	4.125	CGS112T450X4C
1,400	0.076	5.0	2.000	4.125	CGS142T450V4C
1,400	0.069	5.5	2.000	4.625	CGS142T450V4L
1,400	0.059	6.5	2.000	5.625	CGS142T450V5L
1,400	0.060	7.1	2.500	5.125	CGS142T450W5C
1,500	0.059	7.4	3.000	4.125	CGS152T450X4C
1,500	0.057	8.1	3.000	5.125	CGS152T450X5C
1,700	0.063	6.0	2.500	3.625	CGS172T450W3L
1,800	0.054	5.4	2.000	5.625	CGS182T450V5L
1,800	0.048	9.3	3.000	5.875	CGS182T450X5R
1,900	0.052	7.6	3.000	5.625	CGS192T450X5L
2,000	0.045	9.1	3.000	5.125	CGS202T450X5C
2,200	0.051	6.9	2.000	5.625	CGS222T450V5L
2,200	0.045	8.4	3.000	4.125	CGS222T450X4C
2,300	0.052	7.0	2.500	4.125	CGS232T450W4C
2,400	0.048	7.2	2.500	4.125	CGS242T450W4C
2,400	0.055	7.1	2.500	4.625	CGS242T450W4L
2,400	0.038	10.3	3.000	5.625	CGS242T450X5L
2,500	0.058	7.0	3.000	3.625	CGS252T450X3L
3,100	0.043	7.2	2.500	5.625	CGS312T450W5L
3,300	0.031	11.4	3.000	5.625	CGS332T450X5L
3,500	0.042	8.8	3.000	4.125	CGS352T450W5L
3,600	0.035	9.7	2.500	5.625	CGS362T450W5L
3,600	0.041	9.2	3.000	4.625	CGS362T450X4L
4,600	0.032	9.6	3.000	5.625	CGS462T450X5L
4,700	0.031	10.9	3.000	5.125	CGS472T450X5C
5,300	0.028	12.0	3.000	5.625	CGS532T450X5L
5,800	0.026	12.4	3.000	5.875	CGS582T450X5R
7,700	0.020	16.7	3.000	8.625	CGS772T450X8L
9,000	0.017	18.2	3.000	8.625	CGS902T450X8L

500 WVDC; 550 VDC Surge

Cap µF	Max ESR (ohms) @ 120Hz	Max Ripple RMS Amps @ 120Hz +85°C	Dia	Length	Catalog Number
160	.610	1.1	1.375	2.125	CGS161T500R2C
240	.422	1.4	1.375	2.625	CGS241T500R2L
240	.416	1.6	1.750	2.125	CGS241T500U2C
310	.323	1.8	1.375	3.125	CGS311T500R3C
310	.322	2.0	2.000	2.125	CGS311T500V2C
361	.282	2.1	1.750	2.625	CGS361T500U2L
380	.262	2.1	1.375	3.625	CGS381T500R3L
450	.220	2.4	1.375	4.125	CGS451T500R4C
460	.225	2.6	2.000	2.625	CGS461T500V2L
530	.190	2.7	1.375	4.625	CGS531T500R4L
600	.167	3.0	1.375	5.125	CGS601T500R5C
620	.164	3.2	1.750	3.625	CGS621T500U3L
620	.165	3.2	2.000	3.125	CGS621T500V3C
670	.150	3.5	1.375	5.625	CGS671T500R5L
750	.136	3.6	1.750	4.125	CGS751T500U4C
790	.131	3.8	2.000	3.625	CGS791T500V3L
880	.116	4.1	1.750	4.625	CGS881T500U4L
950	.108	4.4	2.000	4.125	CGS951T500V4C
1000	.101	4.6	1.750	5.125	CGS102T500U5C
1000	.101	4.7	2.500	3.125	CGS102T500W3C
1100	.089	5.1	1.750	5.625	CGS112T500U5L
1100	.092	5.0	2.000	4.625	CGS112T500V4L
1300	.081	5.6	2.000	5.125	CGS132T500V5C
1300	.080	5.6	2.500	3.625	CGS132T500W3L
1500	.072	6.1	2.000	5.625	CGS152T500V5L
1600	.066	6.5	2.500	4.125	CGS162T500W4C
1800	.057	7.3	2.500	4.625	CGS182T500W4L
1900	.057	7.5	3.000	3.625	CGS192T500X3L
2100	.049	8.2	2.500	5.125	CGS212T500W5C
2300	.047	8.7	3.000	4.125	CGS232T500X4C
2400	.044	9.0	2.500	5.625	CGS242T500W5L
2700	.041	9.8	3.500	3.625	CGS272T500Y3L
2800	.040	9.8	3.000	4.625	CGS282T500X4L
3200	.035	20.3	3.000	5.125	CGS322T500X5C
3300	.034	11.2	3.500	4.125	CGS332T500Y4C
3500	.030	12.1	3.000	5.625	CGS352T500X5L
4400	.025	14.1	3.500	5.125	CGS442T500Y5C
4800	.023	15.2	3.500	5.625	CGS482T500Y5L
6000	.018	18.7	3.000	8.625	CGS602T500X8L
8300	.014	23.1	3.500	8.625	CGS832T500Y8L

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