

TWO ELECTRODE HIGH VOLTAGE SURGE ARRESTERS

CG3 Series



SPECIFICATIONS

All characteristics at 25°C

All characteristics at 25°C			CG3-1.0			CG3-1.5			
			CG3-1.0L			CG3-1.5L			
PARAMETER	CONDITIONS	SYMBOL	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Device Specifications									
DC Breakdown	500V/s	V _{BD}	800	1000	1200	1200	1500	1800	V
Impulse Breakdown	100V/μs	V _{BD}	-	-	1500	-	-	2200	V
Insulation Resistance	100V	IR	10 ¹⁰	-	-	10 ¹⁰	-	-	Ω
Capacitance	1MHz	C	-	-	1	-	-	1	pF
Arc Voltage	I=5A min	V _{ARC}	-	10	-	-	10	-	V
Mechanical Outline		-	-	A	-	-	A	-	-
Life Ratings ⁽¹⁾									
Surge Life	.002mF, 100Ω	-	500	-	-	500	-	-	shots
Max Current Surge	10kA (8/20μs)	-	5	-	-	5	-	-	shots
AC Follow-on Current	1/2 cycle @ 60Hz	-	-	-	300	-	-	300	A pk

			CG3-2.0			CG3-2.5			
			CG3-2.0L			CG3-2.5L			
PARAMETER	CONDITIONS	SYMBOL	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Device Specifications									
DC Breakdown	500V/s	V _{BD}	1600	2000	2400	2000	2500	3000	V
Impulse Breakdown	100V/μs	V _{BD}	-	-	3000	-	-	3750	V
Insulation Resistance	100V	IR	10 ¹⁰	-	-	10 ¹⁰	-	-	Ω
Capacitance	1MHz	C	-	-	1	-	-	1	pF
Arc Voltage	I=5A min	V _{ARC}	-	10	-	-	10	-	V
Mechanical Outline		-	-	A	-	-	A	-	-
Life Ratings ⁽¹⁾									
Surge Life	.002mF, 100Ω	-	500	-	-	500	-	-	shots
Max Current Surge	10kA (8/20μs)	-	5	-	-	5	-	-	shots
AC Follow-on Current	1/2 cycle @ 60Hz	-	-	-	300	-	-	300	A pk

			CG3-3.0			CG3-4.0			
			CG3-3.0L			CG3-4.0L			
PARAMETER	CONDITIONS	SYMBOL	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Device Specifications									
DC Breakdown	500V/s	V _{BD}	2400	3000	3600	3200	4000	4800	V
Impulse Breakdown	100V/μs	V _{BD}	-	-	4500	-	-	6000	V
Insulation Resistance	100V	IR	10 ¹⁰	-	-	10 ¹⁰	-	-	Ω
Capacitance	1MHz	C	-	-	1	-	-	1	pF
Arc Voltage	I=5A min	V _{ARC}	-	10	-	-	10	-	V
Mechanical Outline		-	-	B	-	-	B	-	-
Life Ratings ⁽¹⁾									
Surge Life	.002mF,100W	-	500	-	-	500	-	-	shots
Max Current Surge	10kA (8/20μs)	-	5	-	-	5	-	-	shots
AC Follow-on Current	¹ / ₂ cycle @ 60Hz	-	-	-	300	-	-	300	A pk

⁽¹⁾End-of-life limits are:

DC: 50% of minimum initial DC breakdown voltage limit to 150% of maximum initial DC breakdown voltage limit.

Impulse: less than 150% of initial impulse breakdown voltage limit.

SPECIFICATIONS

All characteristics at 25°C

All characteristics at 25°C												
CG3-5.0 CG3-5.0L CG3-7.5 CG3-7.5L CG3-8.5 CG3-8.5L												
PARAMETER	CONDITIONS	SYMBOL	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
Device Specifications												
DC Breakdown	500V/s	V _{BD}	4000	5000	6000	6000	7500	9000	6800	8500	10200	V
Impulse Breakdown	100V/μs	V _{BD}	-	-	7500	-	-	10000	-	-	13500	V
Insulation Resistance	100V	IR	10 ¹⁰	-	-	10 ¹⁰	-	-	10 ¹⁰	-	-	Ω
Capacitance	1MHz	C	-	-	1	-	-	1	-	-	1	pF
Arc Voltage	I=5A min	V _{ARC}	-	10	-	-	10	-	-	10	-	V
Mechanical Outline		-	-	B	-	-	B	-	-	B	-	-
Life Ratings ⁽¹⁾												
Surge Life	.002mF,100Ω	-	500	-	-	500	-	-	500	-	-	shots
Max Current Surge	10kA (8/20μs)	-	5	-	-	5	-	-	5	-	-	shots
AC Follow-on Current	¹ / ₂ cycle @ 60Hz	-	-	-	300	-	-	300	-	-	300	A pk

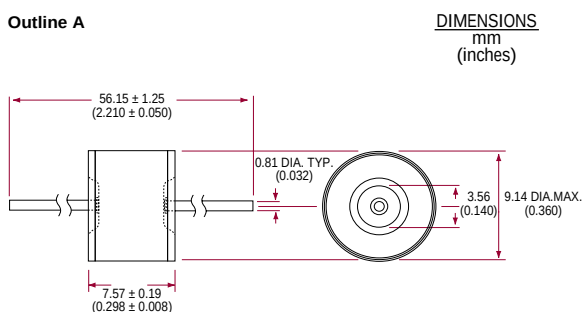
⁽¹⁾End-of-life limits are:

DC: 50% of minimum initial DC breakdown voltage limit to 150% of maximum initial DC breakdown voltage limit.
 Impulse: less than 150% of initial impulse breakdown voltage limit.

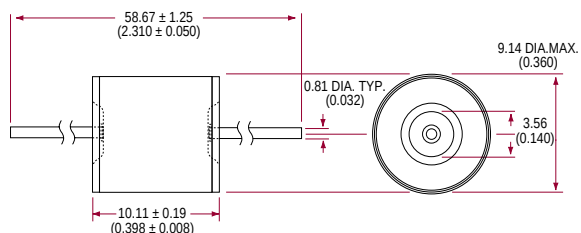
MECHANICAL DIMENSIONS

Other lead forms are available upon request.
 Contact SRC Devices for more information.

Outline A



Outline B



ORDERING INFORMATION

CG3's with other breakdown voltages in the 1.0-8.5kV range are available upon request. A complete part number is represented by the digits below. For example, CG3-1.5 is a non-leaded 1500V device, CG3-5.0L is a leaded 5000V device, and CG3-7.5LTR is a leaded 7500V device on tape-and-reel per EIA standard RS-296-D.

CG3 X.X X XX			
Series CG3	X.X	X	XX
Breakdown Voltage			Shipping Package TR = Tape & Reel (Blank) = Bulk
1.0 = 1000V			Options
1.5 = 1500V			L = Leads
2.0 = 2000V			(Blank) = No Leads
2.5 = 2500V			
3.0 = 3000V			
4.0 = 4000V			
5.0 = 5000V			
7.5 = 7500V			
8.5 = 8500V			

Tape & Reel Information

CG3XXLTR - Tape & Reel per EIA RS-296-D. Quantity = 1,000/Reel

CG3XXLTE - Tape & Reel per IEC286-1. Quantity = 1,000/Reel