SPECIFICATIONS

All characteristics at 25°C

PARAMETER	CONDITIONS	SYMBOL	CG3-1.0 CG3-1.0L MIN	CG3-1.0 CG3-1.0L TYP	CG3-1.0 CG3-1.0L MAX	CG3-1.5 CG3-1.5L MIN	CG3-1.5 CG3-1.5L TYP	CG3-1.5 CG3-1.5L 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

PARAMETER	CONDITIONS	SYMBOL	CG3-2.0 CG3-2.0L MIN	CG3-2.0 CG3-2.0L TYP	CG3-2.0 CG3-2.0L MAX	CG3-2.5 CG3-2.5L MIN	CG3-2.5 CG3-2.5L TYP	CG3-2.5 CG3-2.5L 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

PARAMETER	CONDITIONS	SYMBOL	CG3-3.0 CG3-3.0L MIN	CG3-3.0 CG3-3.0L TYP	CG3-3.0 CG3-3.0L MAX	CG3-4.0 CG3-4.0L MIN	CG3-4.0 CG3-4.0L TYP	CG3-4.0 CG3-4.0L 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.

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SPECIFICATIONS

All characteristics at 25°C

PARAMETER	CONDITIONS	SYMBOL	CG3-5.0 / CG3-5.0L MIN	CG3-5.0 / CG3-5.0L TYP	CG3-5.0 / CG3-5.0L MAX	CG3-7.5 / CG3-7.5L MIN	CG3-7.5 / CG3-7.5L TYP	CG3-7.5 / CG3-7.5L MAX	CG3-8.5 / CG3-8.5L MIN	CG3-8.5 / CG3-8.5L TYP	CG3-8.5 / CG3-8.5L 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

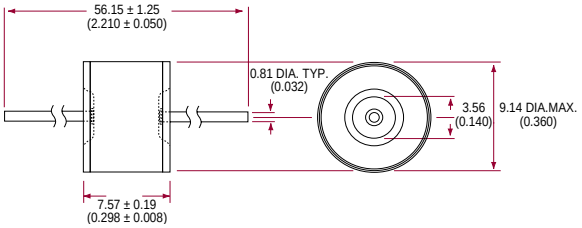
(1)End-of-life limits are:
DC: 50% of minimum initial DC breakdown voltage limit to 150% of maximum initial DC breakdown voltage limit.
Impulse: less than 150% of initial impulse breakdown voltage limit.

MECHANICAL DIMENSIONS

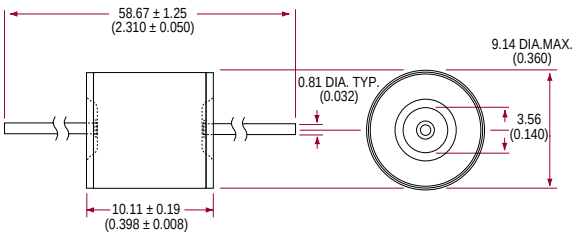
Other lead forms are available upon request.
Contact SRC Devices for more information.

Outline A

DIMENSIONS
mm
(inches)



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

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

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