

## TWO ELECTRODE MINI SURGE ARRESTERS

### CG5 Series



#### DESCRIPTION

SRC Devices two electrode mini CG5 Comgaps are gas filled, non-radioactive surge protectors. These devices are physically smaller than the standard CG/CG2 series reducing the space required to provide high performance circuit protection. The CG5 series can be supplied with or without leads. These components are used in a variety of different applications, including telecom and CATV communication lines. The small CG5 gas tubes function as switches which dissipate a minimum amount of energy and therefore handle currents that far surpass other types of transient voltage protection.

#### FEATURES

- Non-radioactive
- Rugged ceramic-metal construction
- Low capacitance (<1pF)
- Available with or without leads
- Available in tape-and-reel packaging

#### APPLICATIONS

- CATV equipment
- Test equipment
- Data and Telecom lines
- Instrumentation circuits

#### RATINGS (@ 25° C)

Parameter	Min	Typ	Max	Units
DC Breakdown Voltage	72	90	113	V
	184	230	276	V
	280	350	420	V
Insulation Resistance	10 <sup>10</sup>	-	-	Ω
Capacitance	-	-	1	pF
Operational Temperature	-40	-	+125	°C

(See detailed specifications for more information.)

**SPECIFICATIONS**

PARAMETERS	CONDITIONS	SYMBOL	CG5-90 CG5-90L			CG5-230 CG5-230L			CG5-350 CG5-350L			UNITS
			MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
All characteristics at 25°C												
<b>Device Specifications</b>												
DC Breakdown	500V/s	V <sub>BD</sub>	72	90	113	184	230	276	280	350	420	V
Impulse Breakdown	100V/μs	V <sub>BD</sub>	-	-	500	-	-	500	-	-	600	V
	1kV/μs	V <sub>BD</sub>	-	-	700	-	-	700	-	-	800	V
Insulation Resistance	50V	IR	10 <sup>10</sup>	-	-	10 <sup>10</sup>	-	-	10 <sup>10</sup>	-	-	Ω
Capacitance	1MHz	C	-	-	1	-	-	1	-	-	1	pF
Arc Voltage	I=5A min	V <sub>ARC</sub>	-	25	-	-	25	-	-	25	-	V
<b>Life Ratings<sup>(1)</sup></b>												
Surge Life	100A (10/1000μs)	-	300	-	-	300	-	-	300	-	-	shots
Max Current Surge	5kA (8/20μs)	-	10	-	-	10	-	-	10	-	-	shots
AC Current	10x 1sec @ 60Hz	-	-	-	5	-	-	5	-	-	5	A

(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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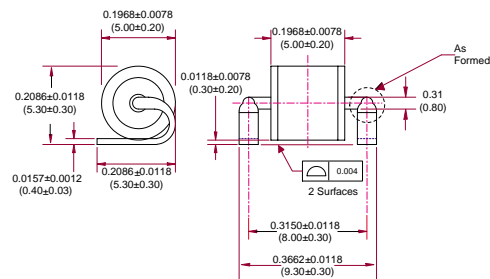
### MECHANICAL DIMENSIONS

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

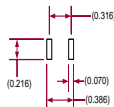
**DIMENSIONS**  
mm  
(inches)



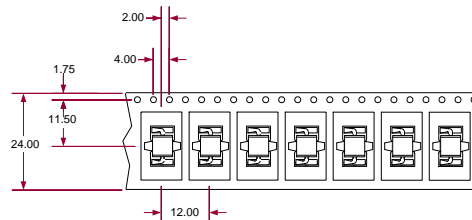
LS Outline



LS Recommended Land Pattern



LS Tape & Reel Packaging



Tape & Reel packaging is available on request. See ordering information below for part number structure.

### ORDERING INFORMATION

A complete part number is represented by the digits below.  
For example, CG5-90 is a non-leaded 90V device, CG5-230L is a leaded 230V device, and CG5-350LTR is a leaded 350V device on tape-and-reel per EIA standard RS-296-D.

#### Tape & Reel Information

CG5XXXLTR - Tape & Reel per EIA RS-296-D. Quantity = 1,000/Reel

CG5XXXLTE - Tape & Reel per IEC286-1. Quantity = 1,000/Reel

CG5XXXLSTR - See figure above for tape & reel information. Quantity = 2,900/Reel

