CG9 Series Gas Discharge Tubes







Description

Littelfuse CG9 two electrode high voltage (1.0-5.5 kV) devices are designed for surge protection and high isolation applications, and for applications for which bias voltages or signal levels of several hundred volts are normally present.

Features

- Rugged Ceramic-metal construction
- Voltage Range 1000–5500 V
- 10 kA 8/20 µs surge capability
- Low capacitance (<1.0 pF)
- Available in T&R packaging
- Available with leads
- RoHS compliant and Lead-free

Additional Information



Resources





Samples

Antenna circuit

■ Power supplies

Applications

- CATV equipment
- Air conditioning
- Test equipment
 - Set-top box
 - Renewable energy

Agency Approvals

Agency	Agency File Number
(h)	E320116

Two Electrode GDT Graphical Symbol



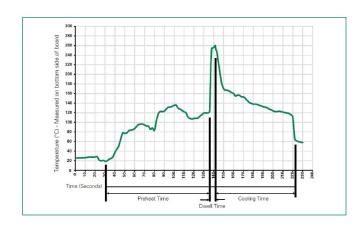
Electrical Characteristics

	Device Specifications (at 25 °C)					Service Life			
Part Number	DC Breakdown in Volts (@100 V/s)	Impulse Break- down in Volts (@100 V/µs)	Impulse Break- down In Volts (@1 kV/μs)	Insulation Resistance	Capacitance (@1 MHz)	10 Operations 50 hZ, 1s	1 Operation 50 hZ, 0.18 s, 9 Cycles	10 Operations @ 8/20 μs	1 Operation @ 8/20 μs
CG91.0	850~1150	1300	1400	>10 GΩ	<1 pF	10 A	65 A	10 kA	15 kA
CG91.2	960~1440	1900	2000	>10 GΩ	<1 pF	10 A	65 A	10 kA	15 kA
CG91.5	1200~1800	2200	2300	>10 GΩ	<1 pF	10 A	65 A	10 kA	15 kA
CG91.8	1440~2160	2600	2700	>10 GΩ	<1 pF	10 A	65 A	10 kA	15 kA
CG92.0	1600~2400	3500	3800	>10 GΩ	<1 pF	10 A	65 A	10 kA	15 kA
CG92.5	2000~3000	3900	4000	>10 GΩ	<1 pF	10 A	20 A	10 kA	15 kA
CG93.5	2800~4200	4900	5000	>10 GΩ	<1 pF	10 A	20 A	10 kA	15 kA
CG94.5	3600~5400	5800	6000	>10 GΩ	<1 pF	10 A	20 A	10 kA	15 kA
CG95.5	4675~6325	6500	7000	>10 GΩ	<1 pF	5 A	10 A	10 kA	15 kA

Product Characteristics

ltem	Test Condition
Operating & Storage Temperature	-40 °C to 125 °C
Product Marking	LF Logo, Voltage and date code; Black ink positive print
Material	Device & Wire: Tin plated 17.5±12.5 Microns

Soldering Parameters: Wave Soldering (Thru-Hole Devices)



Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flex Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum	100 °C		
Temperature Maximum	150 °C		
Preheat Time	60-180 seconds		
Solder Pot Temperature	260 °C Maximum		
Solder Dwell Time	2-5 seconds		

Recommended Hand-Solder Parameters: Solder Iron Temperature: 350 °C +/- 5 °C

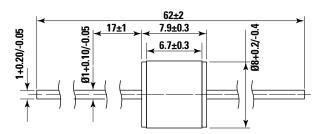
Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

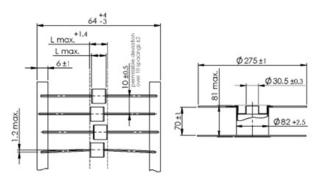


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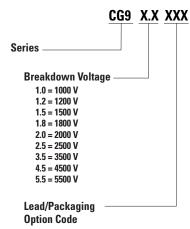
Device Dimensions



Packaging Dimensions



Part Numbering System and Ordering Information



L = Leaded/Bulk pack,100 pcs per tray **L TR =** Leaded/Tape & Reel,500 pcs per reel

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.

