

## High Performance Beta Range

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The Broadband Optimized<sup>™</sup> SL0902 series has been especially developed to offer high surge ratings in a miniature package. Unique design features offer high levels of performance on fast rising transients in the domain of 100V/µs to 1kV/µss, which are those most likely from induced lightning disturbances.

The device offers low insertion loss, so is well suited to braodband equipment. The capacitance does not vary with voltage, so will not cause operational problems with ADSL2+ where capacitance variation across Tip and Ring is undesirable. These devices are extremely robust and are able to divert a 2500A pulse without destruction. For AC Power Cross of long duration, overcurrent protection is recommended.

## **FEATURES**

- RoHS compliant
- GHz working frequency
- Excellent stability on multiple pulse duty cycle
- Excellent response to fast rising transients.
- Ultra Low Insertion Loss
- Surface mountable
- 2.5KA surge capability tested with 8/20mS pulse as defined by IEC 61000-4-5

### **Applications:**

- Broadband equipment.
- ADSL equipment, including ADSL2+.
- XDSL equipment.
- Satellite and CATV equipment.
- General telecom equipment.



2 ELECTRODE GDT

## GRAPHICAL SYMBOL ORDERING INFORMATION







SL0902AxxxSM



5.0 ±0.2

DT SHOWING SEATING PLANE FOR SL0902AxxxSM

All dimensions in mm

## **Mechanical Specifications:**

Weight:	0.33g (0.011 oz.)				
Materials:	Electrode Base: Copper Alloy				
	Electrode Plating: Bright Tin				
	Body: Ceramic				
Device Marking:	'LF' logo, Voltage and date code				
Packaging:	Tape and Reel to EIA RS-296-D, 1500 pieces				
	Bulk in vacuum sealed bags, 1000 pieces				



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# LITTELFUSE 2 TERMINAL MINI ARRESTER SERIES TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

Part Number	breakover Voltage@	Max Dynamic Breakover Voltage @ 100V/µs (Vbr)	Breakover Voltage @ 1	Discharge Current <sup>(4)</sup>	Impulse Discharge Current <sup>(5)</sup> (KA)	Insulation Resistance <sup>(6)</sup> (Ohms)	Max Capacitance (pF)	Holdover Voltage <sup>(3)</sup> (V)	Nominal On-State Voltage @ 1A (V)
SL0902A090	72-108	300	550	2.5	2.5	1x10 <sup>9</sup>	1.5	50	20
SL0902A230	184-276	400	500	2.5	2.5	1x10 <sup>9</sup>	1.5	50	20
SL0902A350	280-420	550	650	2.5	2.5	1x10 <sup>9</sup>	1.5	50	20
SL0902A420 <sup>(7)</sup>	350-504	675	800	2.5	2.5	1x10 <sup>9</sup>	1.5	50	20

Notes:

- (1) At delivery AQL 0.65 level II, DIN ISO 2869
- (2) In ionized mode
- (3) Tested according to ITU-T Rec.K12
- (4) 10 shots, A.C. 60Hz, 1sec. duration
- (5) 10 shots, 8/20 $\mu s$  wave form per IEC 61000-4-5
- (6) Measured @ 100V
- (7) Pending UL approval



### Capacitance vs. Temperature @ Various Bias Voltages



Temperature (°C ) @ bias voltage

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