RoHS Greentube™ SL1002 Series Gas Plasma Arresters

The Broadband Optimized™ SL1002 series has been especially developed for use in broadband equipment. Unique design features offer high levels of performance on fast rising transients in the domain of 100V/µS to 1KV/µS, which are those most likely from induced Lightning disturbances. These devices have Ultra low capacitance (typically 1.2pF or less) and present insignificant signal losses up to 1.5GHz. These devices are extremely robust and are able to divert a 5000A pulse without destruction. For AC Power Cross of long duration, overcurrent protection is recommended.

FEATURES

- RoHS compliant
- Ultra Low Insertion Loss
- Surface mountable
- 5KA surge capability tested with 8/20µS pulse as defined by IEC 61000-4-5
- Excellent response to fast rising transients.
- Can be used to meet Telcordia GR1089 without series resistance
- 10/700 6KV capability, as per ITUT k.21, enhanced test level
- 2000 Amp 2/10µS surge rating
- Meets FCC part 68 10/160µs waveform, 200A test and 10/560µs waveform 100A test.

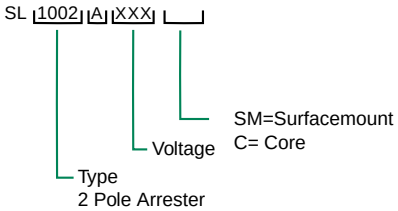
Applications:

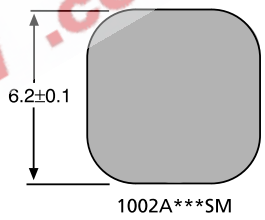
- Broadband equipment.
- ADSL equipment.
- XDSL equipment.
- Satellite and CATV equipment.
- General telecom equipment.

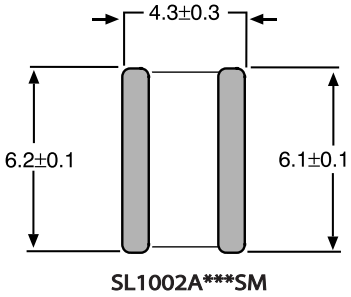
2 ELECTRODE GDT

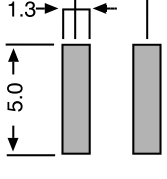
GRAPHICAL SYMBOL

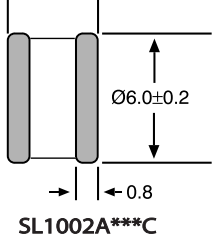
ORDERING INFORMATION











All dimensions in mm

Mechanical Specifications:

Weight:	0.63g (0.022 oz.)
Materials:	Electrode Base: Nickel Iron Alloy Electrode Plating: Bright Sn Body: Ceramic
Device Marking:	'LF' logo, Voltage and date code

RoHS Pb Greentube™ SL1002 Series Gas Plasma Arresters

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

Part Number	DC Voltage @ 100V/sec (V)	Max Dynamic Breakover Voltage @ 100V/µs (Vbr)	Max Dynamic Breakover Voltage @ 1 kV/µs (Vbr)	Max Repetitive Impulse Discharge Current(2) (kA)	Max Single Impulse Discharge Current(5) (A)	Max Single Impulse Discharge Current(6) (A)	Max Leakage Current(3) (nA)	Max Capacitance(4) (pF)	Holdover Voltage(1) (V)	Nominal On-State Voltage @ 1A (V)
SL1002A090	90	**360**	700	**5**	**2**	**2**	**100**	**1.2**	**50**	**20**
SL1002A230	230	**400**	500	**5**	**2**	**2**	**100**	**1.2**	**135**	**20**
SL1002A250	250	**400**	500	**5**	**2**	**2**	**100**	**1.2**	**135**	**20**
SL1002A260	260	**400**	500	**5**	**2**	**2**	**100**	**1.2**	**135**	**20**
SL1002A350	350	**500**	600	**5**	**2**	**2**	**100**	**1.2**	**135**	**20**
SL1002A600	600	**800**	900	**5**	**2**	**2**	**100**	**1.2**	**135**	**20**

Notes:

(1) Tested according to ITU-T Rec.K12

(2) 10 shots, 8/20µs wave form per IEC 61000-4-5

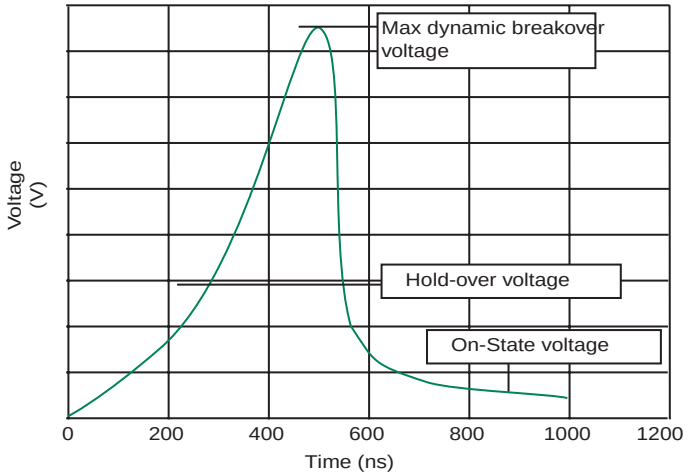
(3) Measured @ 100 Volts

(4) Measured @ 1MHz, O volt bias

(5) Measured with 2/10µs wave form

(6) Measured with 10/350µs wave form

Voltage vs Time Characteristic



Typical Insertion loss figures
@1.0 GHz = 0.01dB
@1.4 GHz = 0.1dB
@1.8 GHz = 0.53dB
@2.1 GHz = 0.81dB
@2.45 GHz = 1.0dB
@2.8 GHz = 1.2dB
@3.1 GHz= 1.5dB
@3.5 GHz = 2.1dB

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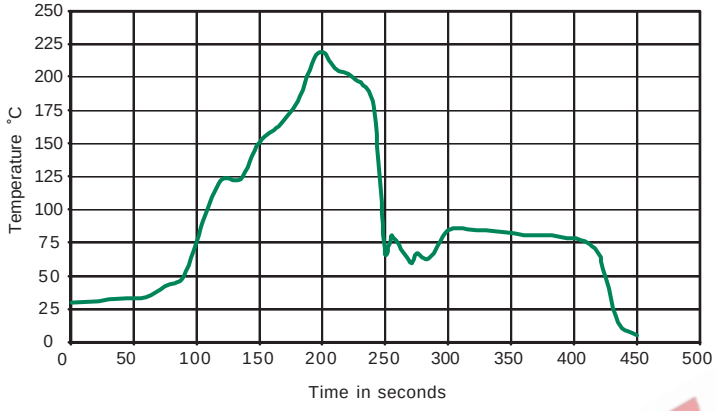
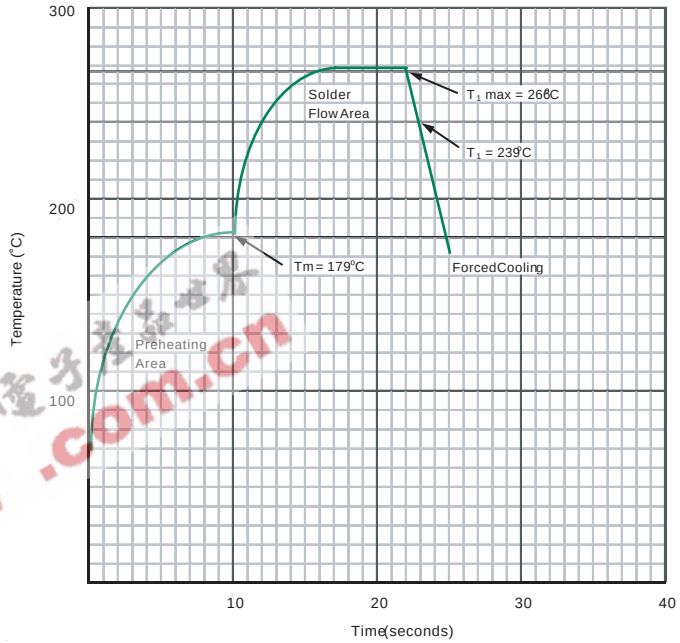
Profile for reflow soldering



Profile for wave soldering



Notes:

T_1 max	=	Maximum Tab Temperature = 266°C
T_1	=	Flow Tempearture of Solder = 239°C
Tm	=	Melting Point of Solder = 179°C
Tamb	=	25°C

Maximum permissible rate of temperature change = °C / sec