

Gas Discharge Tubes

High Performance Beta Range

RoHS 🗭 Greentube™ SL1003 Series Gas Plasma Arresters 🥵 🔊

The SL1003 series has been especially developed for Broadband equipment. Unique design features offer high levels of performance on fast rising transients in the domain of 100V/ μ S to 1KV/ μ S, 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
- Low insertion loss
- Surface mountable
- \bullet 5KA surge capability tested with 8/20µS pulse as defined by IEC 61000-4-5
- GHz working frequency.
- 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

Applications:

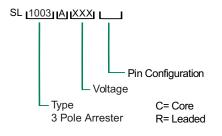
- Broadband equipment.
- ADSL equipment.
- XDSL equipment.
- Satellite and CATV equipment.
- General telecom equipment.



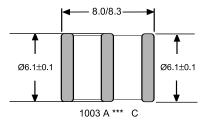
3 ELECTRODE GDT

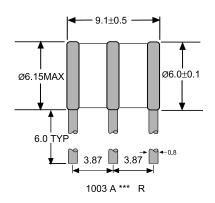
GRAPHICAL SYMBOL

ORDERING INFORMATION









All dimensions in mm



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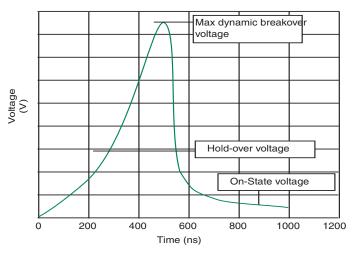
LITTELFUSE 3 TERMINAL MINI ARRESTER SERIES TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

Part Number	DC Voltage @100V/sec (V)	Max Dynamic Breakover Voltage @ 100 V/µs (Vbr)	Breakover Voltage @	Max Repetitive Impulse Discharge Current ² (kA)	Insulation Resistance ⁷ (Ω)	Alternating Discharge Current³ (A)	Capacitance ⁴	Holdover Voltage ¹ (V)	Nominal On-State Voltage @ 1A (V)
SL1003A090	90	600	700	5	1x10 ⁹ @50V	5	1.2	50	20
SL1003A230	230	350	500	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A250	250	400	600	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A260	260	420	600	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A300	300	450	650	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A350	350	500	700	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A400	400	550	800	5	1x10 ⁹ @100V	5	1.2	135	20
SL1003A450	450	650	800	5	1x10 ⁹ @100V	5	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 @ 1 MHz, 0 volt bias
- (5) Measured with 2/10µs wave form
- (6) Measured with 10/350µs wave form
- (7) Measured @ 100VDC except 90V which is measured at 50VDC

Voltage vs Time Characteristic



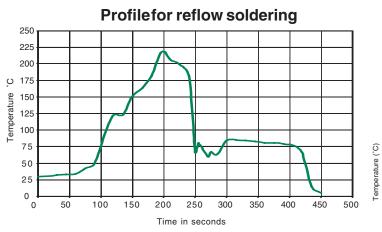
Typical Ittien loss figures
@1.0 GHz = 0.01dB
@1.4 GHz = 0.1dB
@1.8 GHz = 0.53dB
@2.1 GHz = 0.81dB
@2.45 GHz = 1.0dB
@2.8 GHz = 1.2dB
@3.1 GHz= 1.5dB
@3.5 GHz = 2.1dB

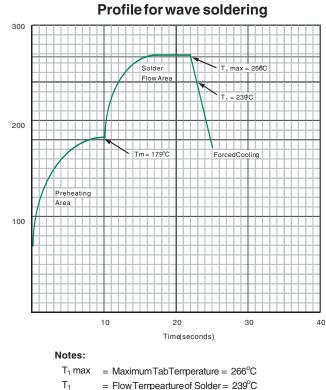


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= Flow Tempearture of Solder = 239°C

Tm = Melting Point of Solder = 179°C

Tamb = 25°C

Maximum permissible rate of temperature change = °C / sec