

Product Specification

2.4/5GHz Lightning Arrester

WL-LTNA

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Change History:

Revision	Date	Author	Change List
Version 1.0	2011-10-31	Miki Chou	Initial release

Author	Miki	Editor:	Miki
Approved by:	Tom	Project Leader:	Kent

1. PRODUCT DESCRIPTION

The Planet's Lightning Protector Model WL-LTNA is a gas discharge tube suppressor featuring wide-band operation up to 6 GHz. The unit features an N male (Plug) to N Female (Jack) connector.

Due to its low-cost and superior RF performance this unit is ideal for IEEE 802.11a/b/g/n Wireless LAN applications. Since this protector will pass DC it is suitable for applications where DC is carried through the coax cable such as remote amplifiers and LNA's.

The unit's replaceable gas tube element, multi-strike capability and fast response time make it suitable for a wide range of applications. A ground lug and terminal is provided directly on the lightning protector housing which provides superior grounding.

2. PRODUCT FEATURES

- Lightning Arrester for outdoor wireless application
- Compatible with 2.4 / 5GHz 802.11a/b/g/n device
- N-Male (Plug) to N-Female (Jack) connector type

3. PRODUCT SPECIFICATION

3.1 SPECIFICATIONS SUMMARY

Product	WL-LTNA 2.4/5GHz Lightning Arrester
Electrical Specification	
Type	Gas Discharged
Frequency	0 ~ 6GHz
V.S.W.R	0 ~ 5GHz 1:1.5
	5 ~ 6GHz 1:2.0
Gain Loss	0.5dB
Maximum withstand current	20KA
DC breakdown voltage	90±20% (@100V/S)
Impulse breakdown voltage	< 600V (@1KV/μs)
AC Discharge Current	5A (@50Hz)
Surge Discharge Current	5KA (@8/20μs)
Insulation Resistance	≥ 1000mΩ
Electrode Capacitance	< 1.5P
Environment Specification	
Temperature Range	-40°C ~ 65°C
Humiture	85°C/85% RH-48hrs
Mechanical Specification	
Connector Type	N male to N female
Connector Body Material	Nickel Plated Brass
Body Material	Anodized Aluminum
Pin Material	Gold Plated Brass
Dimensions (Max.)	68 x 22 x 25 mm (L x W x H)
Weight	87g

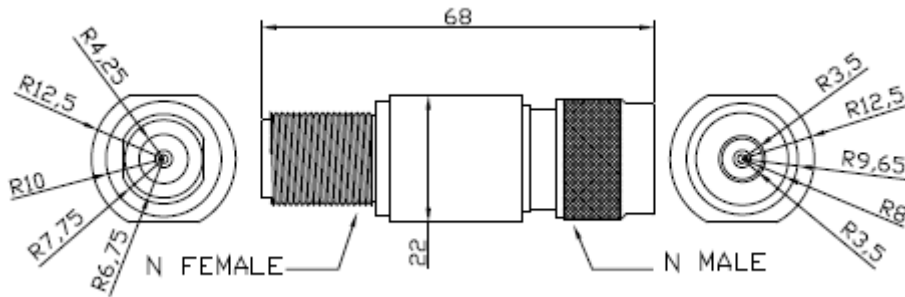
3.2 PHYSICAL SPECIFICATION

Dimension (Max.)

68 x 22 x 25 mm (L x W x H)

Weight

87g

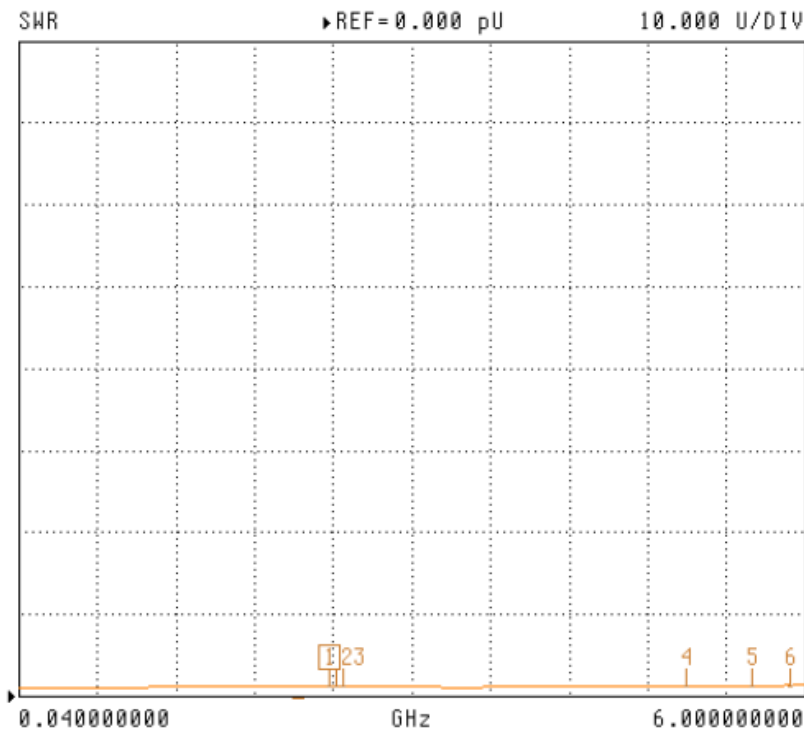


Product Outlook



3.3 PARAMETER TEST DATA

S11 FORWARD REFLECTION



CH 1 - S11
REFERENCE PLANE
0.0000 mm

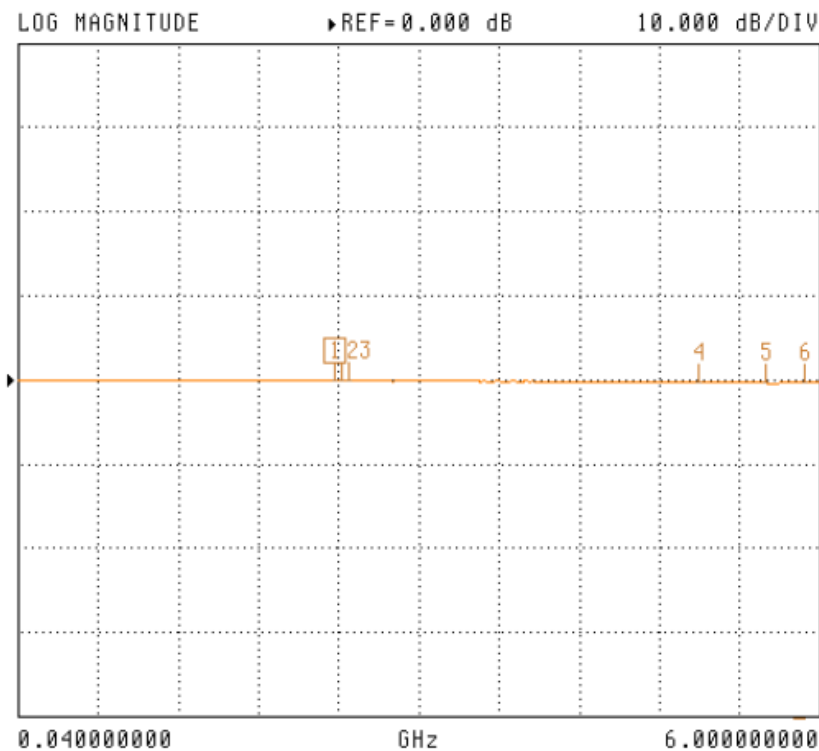
▶ MARKER 1
2.394200000 GHz
1.193 U

MARKER TO MAX
MARKER TO MIN

- 2 2.453800000 GHz
1.181 U
- 3 2.498500000 GHz
1.182 U
- 4 5.106000000 GHz
1.101 U
- 5 5.597700000 GHz
1.190 U
- 6 5.895700000 GHz
1.252 U

MARKER READOUT
FUNCTIONS

S21 FORWARD TRANSMISSION



CH 3 - S21
REFERENCE PLANE
0.0000 mm

▶ MARKER 1
2.394200000 GHz
-0.167 dB

MARKER TO MAX
MARKER TO MIN

- 2 2.453800000 GHz
-0.172 dB
- 3 2.498500000 GHz
-0.191 dB
- 4 5.106000000 GHz
-0.313 dB
- 5 5.597700000 GHz
-0.416 dB
- 6 5.895700000 GHz
-0.418 dB

MARKER READOUT
FUNCTIONS

3.4 BASIC PACKAGING

- WL-LTNA x 1
- Quick Installation Guide x 1

3.5 PACKAGING INFORMATION

- Dimension: 110 x 95 x 40 mm (L x W x H)
- Weight: 114g (gross weight)