



Products name: RF Coaxial Surge arrester

General a Surge Arrester for Outdoor application with wireless communication system、GPS、Mobile Antenna、801.11a/b/g LAN.

### Specification of RF surge arrester

#### Electrical Specification

Impedance	50 Ohm	
Frequency Range	0~6GHz	
VSWR	0~3GHz	1.3(max):1
	3~6GHz	1.5(max):1
Insertion Loss	0.8dB(max)	
Gas Tube DC Breakdown Voltage	90V ± 20%	
Impulse Discharge Voltage	5KA min (wave 8/20 μs)	
	10KV min (wave 1.2/50 μs)	
Insulation Resistance	DC 50V > 10,000MΩ	

#### Mechanical specification

Model Number	JP-SA-001	
Connector	N Jack	
	OD1.37mm to U.FL	
Tensile Strength	50.0 kg	

Testing Standard:  
IEC 1000-4-5 8/20μs Waveform

Surge:10kV @8/20 μs Waveform  
5kA @ 8/20 μs Waveform

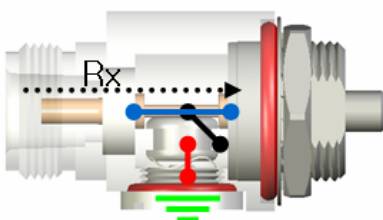
Surge Arrester: Gas Tube Functionality

- W/O Lighting Attack: Open Circuit
- W/H Lighting Attack: Short Circuit

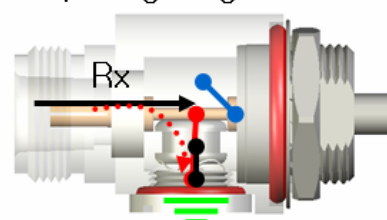
Under normal operating conditions, the gas tube act as a simple capacitor.

When lighting attack, the gas within the tube ionizes and switch the tube to a low impedance state. And the lightning surge current pass through the center conductor to ground.

Gas Tube: Open Circuit  
W/O Lighting Attack



Gas Tube: Short Circuit  
W/H Lighting Attack



More Passion

More Responsible

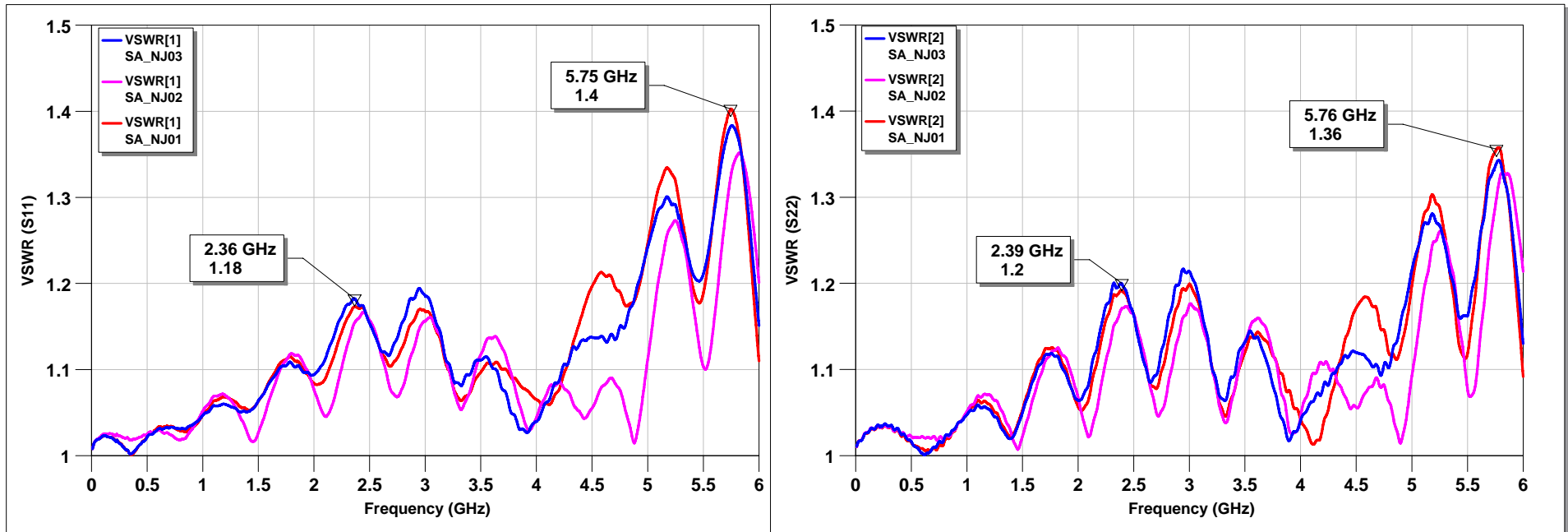
& More Communications



GTT current RF performance measurement report :  
 Testing Frequency range: DC~6.0GHz  
 Cable Specification : N jack surge arrester to U.FL-LP-088 150mm

## VSWR

Port 1 : N jack  
 Port 2 : U.FL-LP connector



	VSWR	
Frequency	DC~3GHz	3GHz~6GHz
Specification	1.3(max):1	1.6(max):1

More Passion

More Responsible

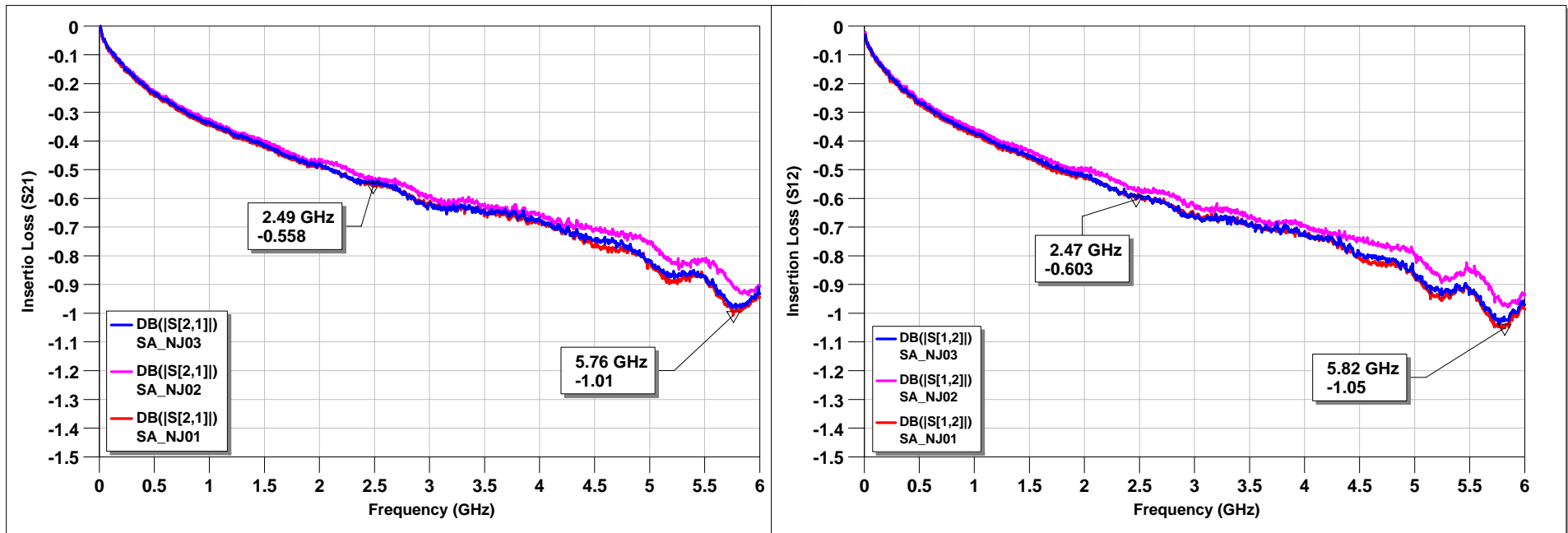
& More Communications



GTT current RF performance measurement report :  
 Testing Frequency range: DC~6.0GHz  
 Cable Specification : N jack surge arrester to U.FL-LP-088 150mm

## Insertion Loss

Port 1 : N jack  
 Port 2 : U.FL-LP connector



	Insertion Loss	
Frequency	DC~3GHz	3GHz~6GHz
Specification	-0.7dB(max)	-1.2dB(max)