

Product Description

The LS-C1 is an industrial-grade omni-directional radio antenna for frequencies in 1400 MHz and 2200 MHz to 2500 MHz bands. The material of the antenna housing is made of fiber-glass terminated with a rugged TNC connector and is easy to mount.

Highlight

- ✓ Standard TNC connector mount, easy installation
- ✓ Support 1400 MHz, 2200 MHz to 2500 MHz
- ✓ Omni-directional radiation pattern, covering whole directions horizontally.
- ✓ Weather resistant fiberglass housing, white and black optional upon request.

Applications

- ✓ Radio communication
- ✓ Basic waterproof feature
- ✓ Machine-to-machine, data transmission SCARDA
- ✓ IoT Gateway, routers

LS-C1

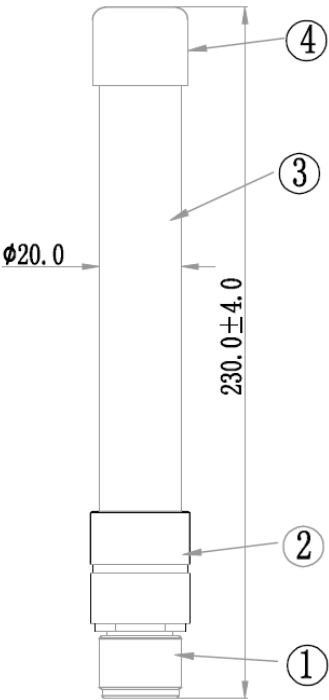
Industrial-grade L & S Band Radio Antenna



Mechanical Specification	
Dimension	20 (dia.) x 230mm
Connector	TNC Plug
Enclosure Material	Fiberglass
Color	Black or White, optional
Operating Temperature	-35°C to 85°C
Storage Temperature	-40°C to 85°C

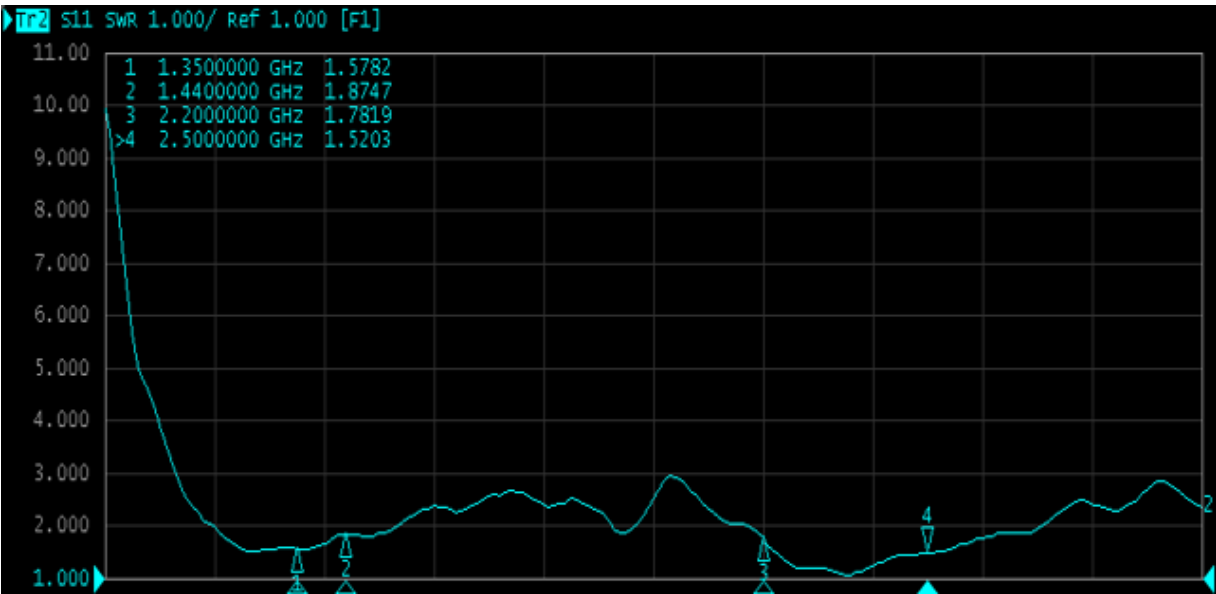
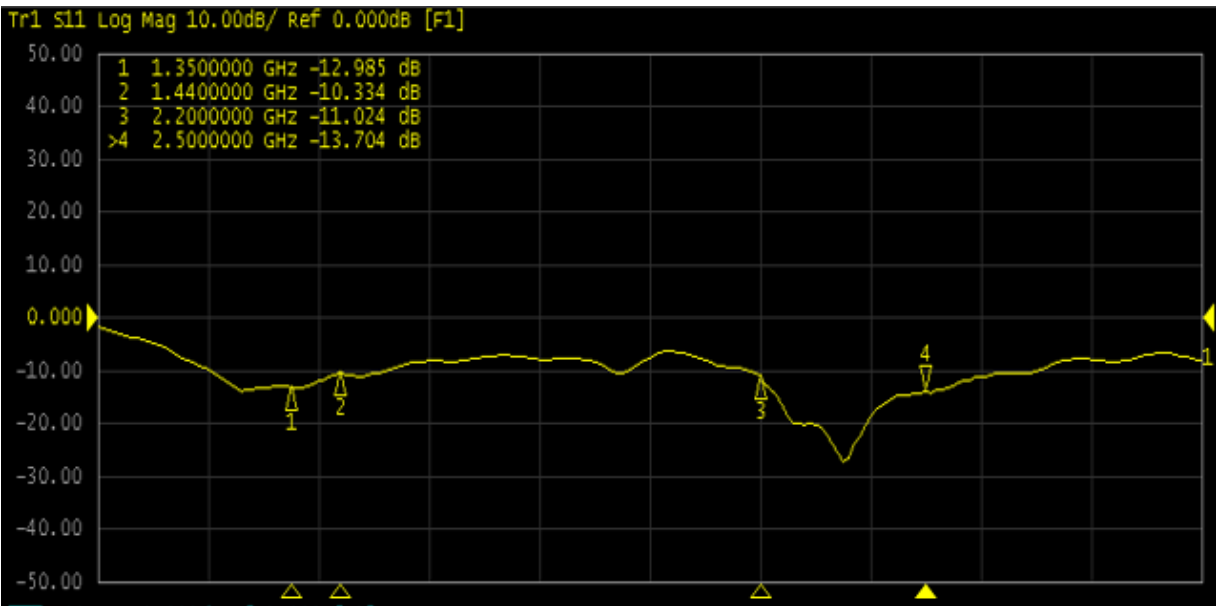
Antenna Specification		
L & S Band Antenna		
Frequency (MHz)	L Band	1350 ~ 1440MHz
	S Band	2200 ~ 2500MHz
Peak Gain	L Band	1.65dBi
	S Band	1.91dBi
Efficiency	L Band	77.46%
	S Band	78.80%
VSWR	L Band	< 1.87:1
	S Band	< 1.78:1
Impedance	50 ohm	
Polarization	Omnidirectional	

Antenna Drawing

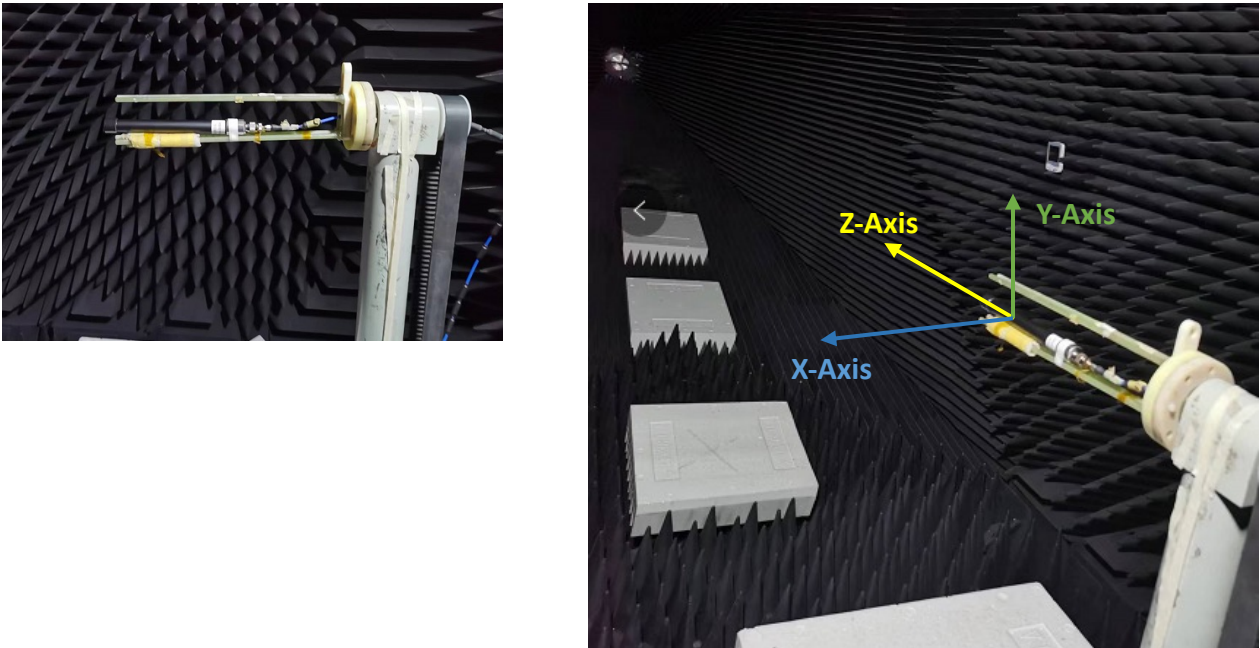


Serial	Description	Detail	Q'ty
①	Connector	TNC Straight Plug	1
②	Aluminum Cover	$\phi 24 \times 60$ mm	1
③	Fiberglass Housing	$\phi 20 \times 185 \times 2$ mm - Black	1
④	ABS Top Cap	$\phi 22.1 \times 12$ mm - Black	1

Antenna Measurement – VSWR & Return Loss



Antenna Measurement – Setup in Anechoic Chamber



Antenna Measurement – Testing Result

Frequency (MHz)	Efficiency (%)	Gain(dBi)	Frequency (MHz)	Efficiency (%)	Gain(dBi)	Frequency (MHz)	Efficiency (%)	Gain(dBi)
1350	75.38	1.58	2200	66.57%	1.66	2400	72.04%	1.45
1360	72.65	1.58	2220	69.32%	1.59	2420	69.39%	1.44
1370	66.71	1.37	2240	69.92%	1.51	2440	64.26%	1.27
1380	64.98	1.32	2260	70.50%	1.66	2460	64.50%	1.15
1390	64.19	1.22	2280	72.68%	1.75	2480	62.47%	1.28
1400	69.06	1.42	2300	76.52%	1.82	2500	65.48%	1.11
1410	72.10	1.53	2320	76.83%	1.95			
1420	71.54	1.44	2340	75.98%	1.87			
1430	74.50	1.53	2360	78.80%	1.87			
1440	77.46	1.65	2380	77.40%	1.79			