



Product Overview



ANT-SS450-510

450-510MHz Compressed Whip / Stubby Antenna

Product Overview

The ANT-SS450-510 is suited for portable and fixed applications requiring omni-directional radio communications. A stubby antenna is similar to a whip antenna but is compressed to make it shorter. Encompassing a straight SMA Male connector and an optimized VSWR of <1.5 , the ANT-SS450-510 is ideal for monitoring & telemetry applications that demand a high performance antenna solution.

Product Specifications

Features

- Linear polarisation.
- Omni-directional radiation pattern.
- 3dBi Gain @ 480MHz

Electrical

- Frequency range: 450-510MHz.
- Nominal impedance: 50 Ω .
- Maximum input power: 50W.
- VSWR: ≤ 1.5 @ 480MHz, ≤ 2.2 @ 450MHz, ≤ 2.7 @ 510MHz

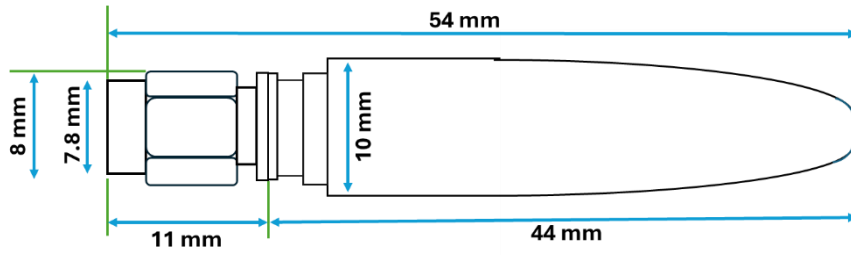
Mechanical

- Connector: SMA straight Male.
- Dimensions: 54mm x 10mm. +/-1mm
- Weight: 9g.
- Ambient temperature: -40°C to 60°C.

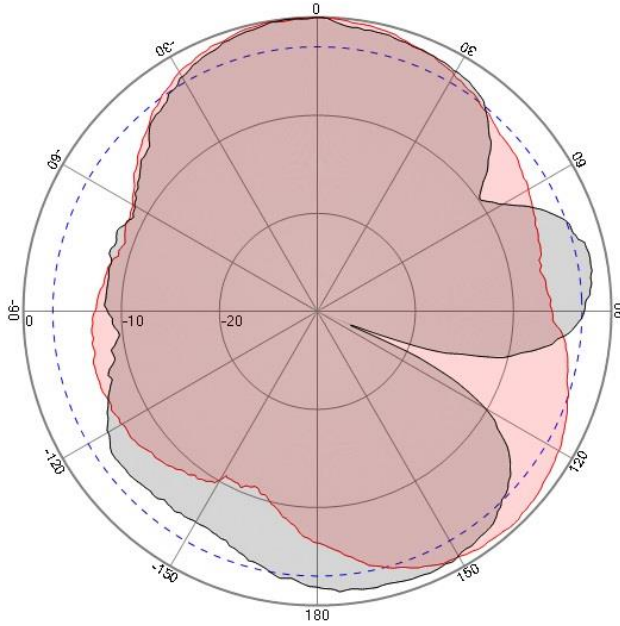
Applications

This antenna is suitable for portable & fixed applications that require omni-directional communication.

Dimensions (mm)



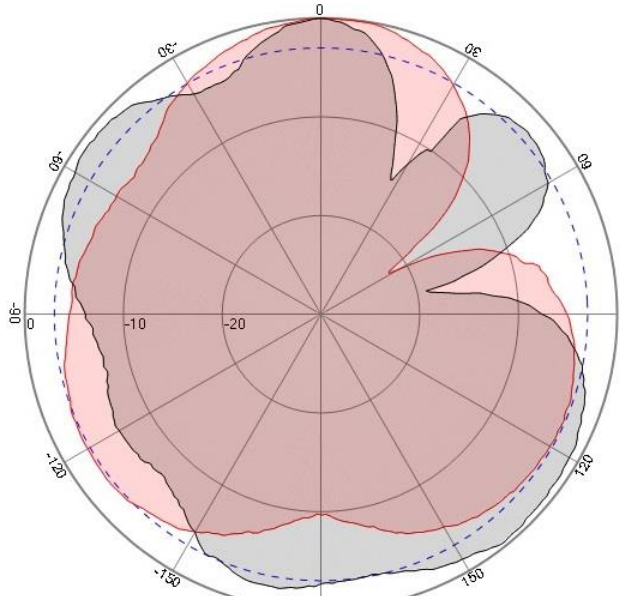
Radiation Pattern



Freq: 480
 Polar_Face: H-planeM-polarization
 Polarize: Vertical
 MaxV: -48.73
 HPBW(3dB): 73.82
 FBR: 1.11
 ComGain: -48.73

Freq: 480
 Polar_Face: V-planeM-polarization
 Polarize: Vertical
 MaxV: -52.00
 HPBW(3dB): 71.71
 BeamU1: 8.62
 ZeroU: 9.65
 BeamD1: 1.68
 ZeroD: 9.76

Gain: 3.00



Freq: 510
 Polar_Face: H-planeM-polarization
 Polarize: Vertical
 MaxV: -46.02
 HPBW(3dB): 59.52
 FBR: 4.54
 ComGain: -46.02

Freq: 510
 Polar_Face: V-planeM-polarization
 Polarize: Vertical
 MaxV: -50.93
 HPBW(3dB): 30.09
 BeamU1: 1.02
 ZeroU: 4.42
 BeamD1: 2.11
 ZeroD: 14.51
 Obliquity: 145.75

Gain: 3.08



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Ordering information

Name	Description	Order Code
Straight Compressed Antenna	450-510MHz Compressed Whip / Stubby Antenna	ANT-SS450-510
Accessories		
PCB Mount SMA Connector	Straight SMA coaxial connector. Impedance: 50Ω	SMACONNECTOR
Right Angled PCB Mount SMA Connector	Right Angled SMA coaxial connector. Impedance: 50Ω	SMARACONNECTOR
SMA Bulkhead Jack	Bulkhead SMA Connector	SMAENDBLKHD-JK
u.FL to SMA Female Jack 100mm	u.FL to SMA connector with 100mm RG174 cable	ARW-CAB-SMA-UFL-10

Visit www.lprs.co.uk for more information



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