



Delta 12b

868 MHz LoRa Terminal Mount Whip Antenna



Key Features

- 863 - 870 MHz Support
- 3dBi gain
- Flexible Rubber 1/4 Wave Whip Antenna

General Description

The Delta 12 antenna range are 1/4 wave ISM whip antennas. This style of antenna is offered in a number of different frequencies covering the popular ISM bands.

This antenna is perfect for high volume ISM applications within the mobile applications world.

The Delta 12b is tuned to the ISM (Industrial, Scientific and Medical) radio frequency bands of 868 and 869MHz.

Additional Considerations

- Small format design for applications with limited space
- Meets all EU compliance criteria for electronic goods

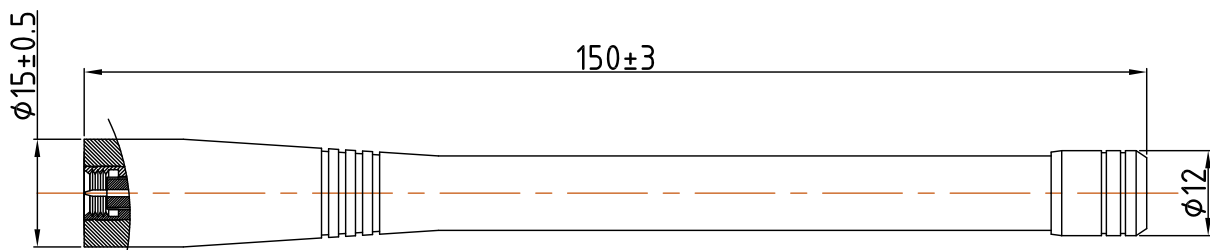
D Direct	ZB Zigbee	IEEE 802.15.4	ISM 868
HNT Helium	W Weightless	LoRa Wireless	SF Sigfox



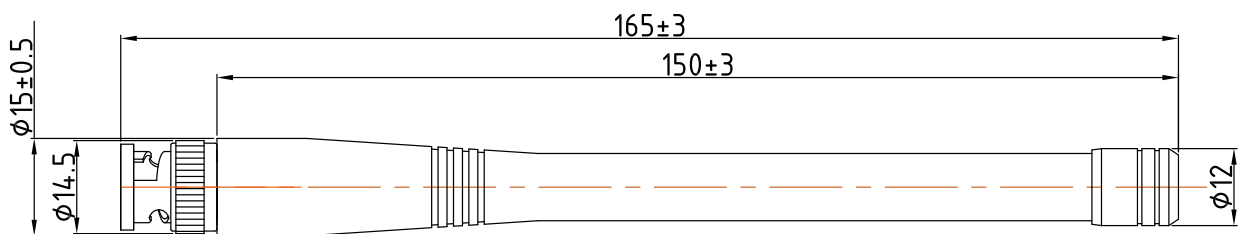
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Drawing (SMA Male Version)



Drawing (BNC Male Version)





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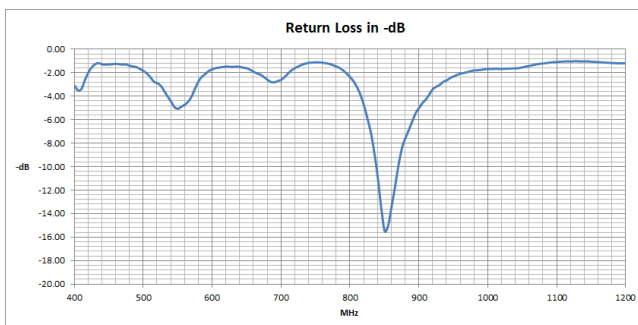
Key Specifications - Electrical

Temperature range:	-30° to +75°C
Gain:	3 dBi
VSWR:	<3.0:1
Impedance:	50 Ohms
Frequency Bands:	863 - 870 MHz
Polarization:	Linear

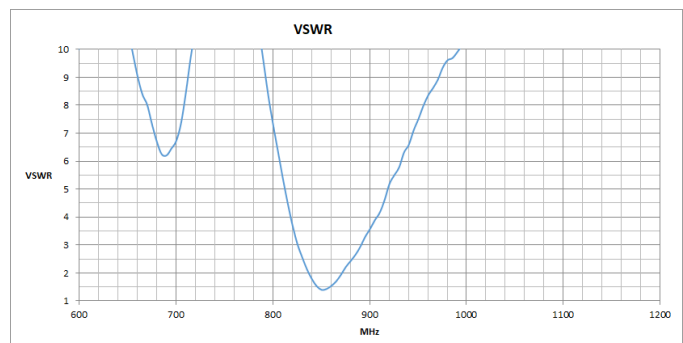
Key Specifications - Mechanical

Dimensions:	150mm x 15mm
Connector:	SMA
Mounting method:	Terminal Mount

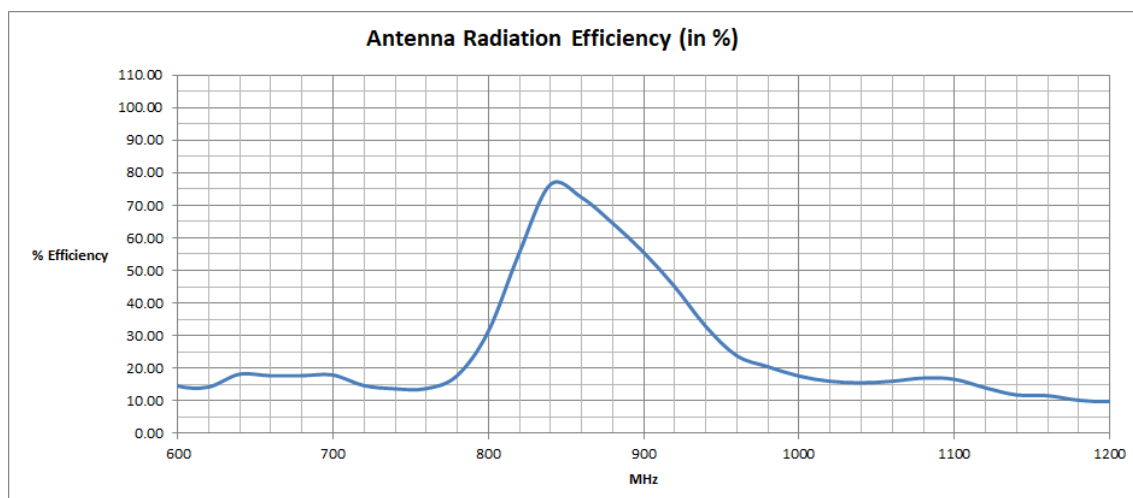
Return Loss



VSWR



Radiation Efficiency

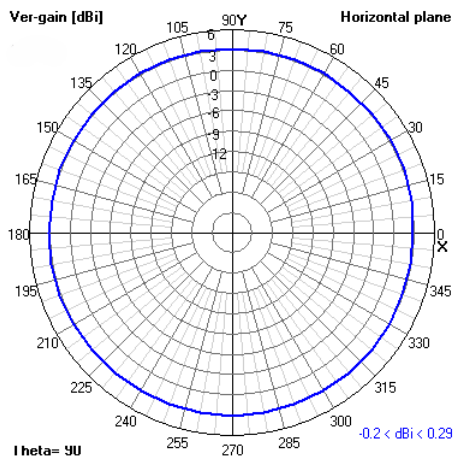


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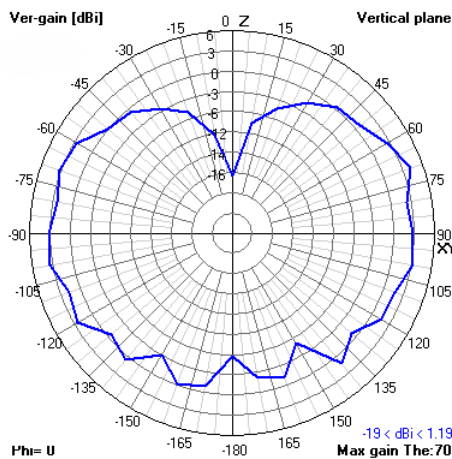
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Radiation Plots

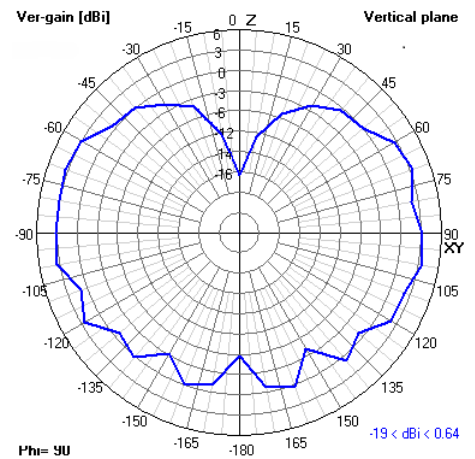
868 MHz XY



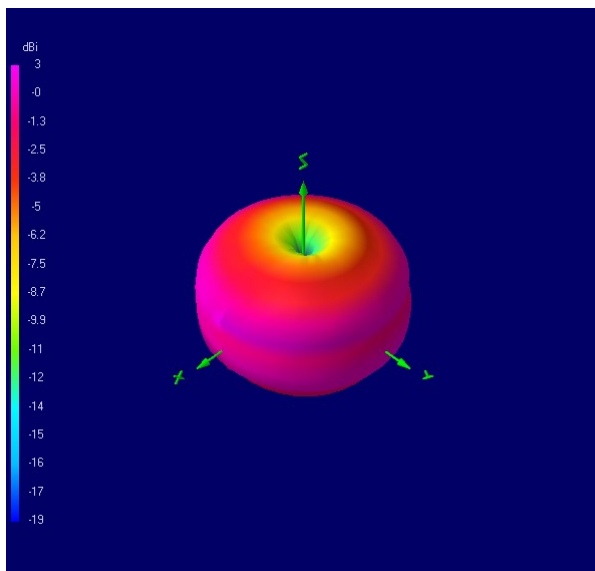
868 MHz XZ



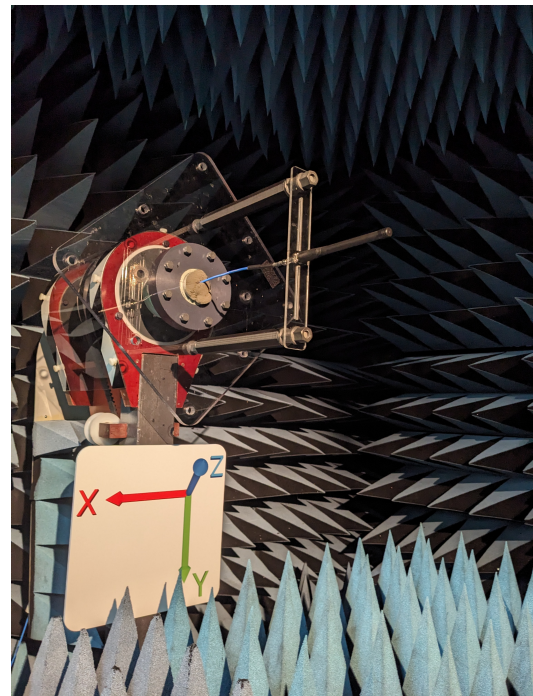
868 MHz YZ



3D Radiation Plot



Test Setup (in Freespace)



Ordering Details

Part Number	Description
DELTA12B/x/SMAM/S/S/17	868 MHz LoRa Terminal Mount Whip Antenna SMA Male Connector
DELTA12B/x/BNCM/S/S/17	868 MHz LoRa Terminal Mount Whip Antenna BNC Male Connector