



Your antenna design partner

CoreloT SMA Stub 865MHz LORA Antenna

Datasheet



SMA STUB 865MHZ LORA ANTENNA

Introduction

The CoreIoT SMA Stub 865MHz LORA Antenna is a high efficient SMA-mount ISM band antenna operating in the band 860-870MHz. This antenna was designed for LoRa applications in mind. The high efficiency and high gain design provide the antenna consistent and stable connectivity. The antenna housing consists of black UV resistant plastic, IP 56 rated housing, and a SMA male connector. The small size and high performance make this antenna an ideal solution for any ISM type of applications.

Features

1. Passive Antenna
2. 860-870MHz
3. Size of antenna:50mm, Ø10mm(Including Connector)
4. Efficiency > 87%
5. Realized Gain > 3.0 dBi
6. Linear Polarization
7. SMA Connector(Male)

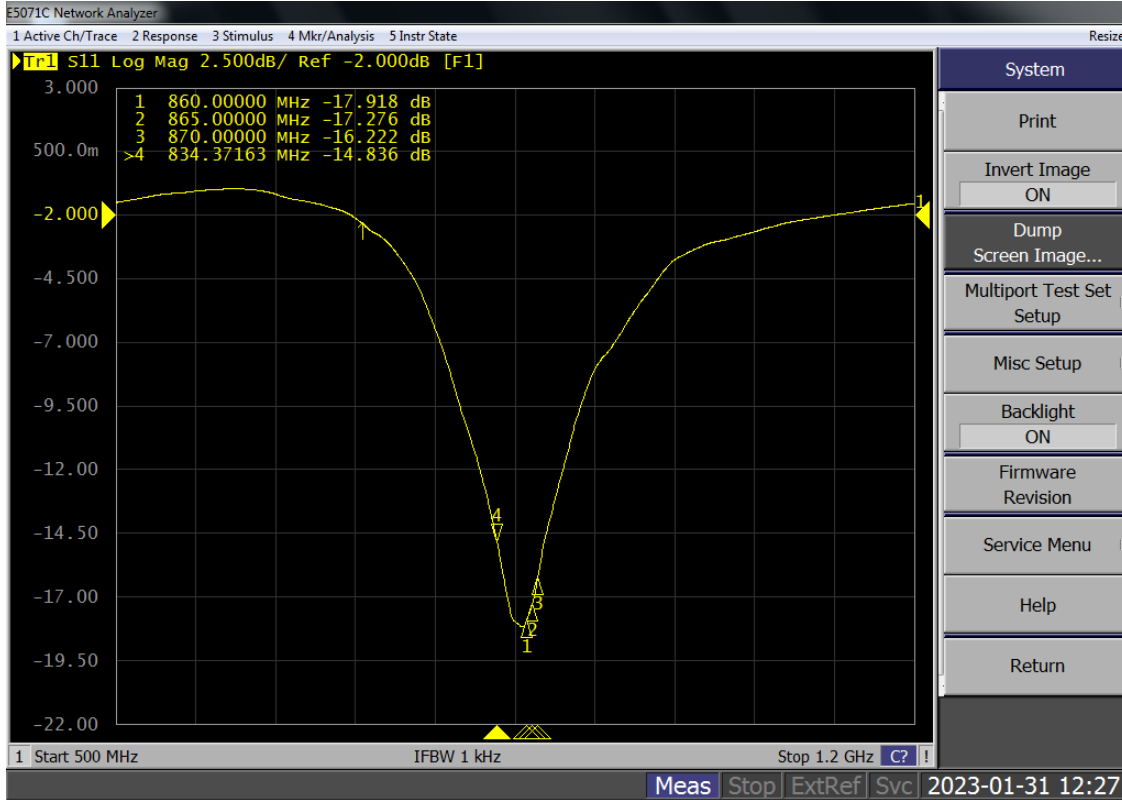
Applications

1. In-and-Outdoor
2. Smart metering
3. Remote monitoring
4. IoT Applications
5. Industrial Controls

BAND	860-870 MHz
Frequency(GHz)	860 – 870
VSWR	< 1.3
Return loss (dB)	< -16
Peak gain(dBi)	3.16
Efficiency(%)	> 87
Radiation properties	Omni-Directional
Max. input power	5W
Polarization	Linear Polarized
Impedance(ohms)	50

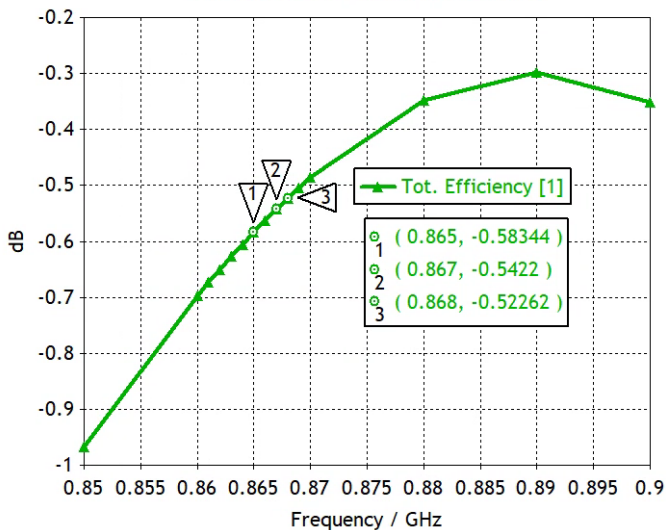
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Return Loss



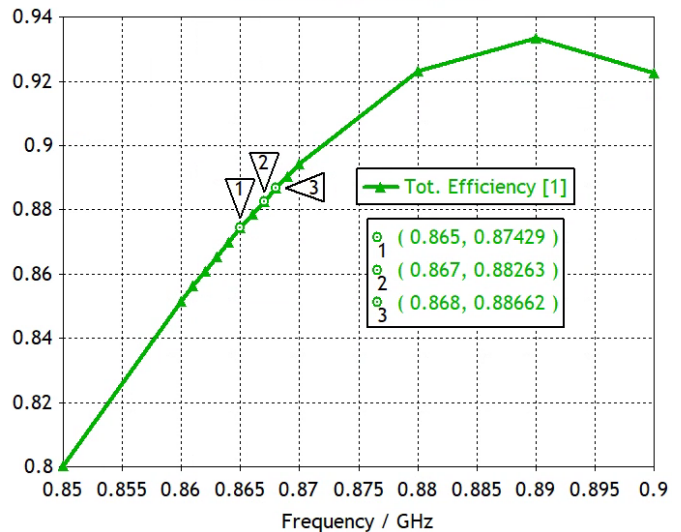
Total Efficiency

Total Efficiency in dB [Magnitude in dB]



In dB Scale

Total Efficiency [Magnitude]

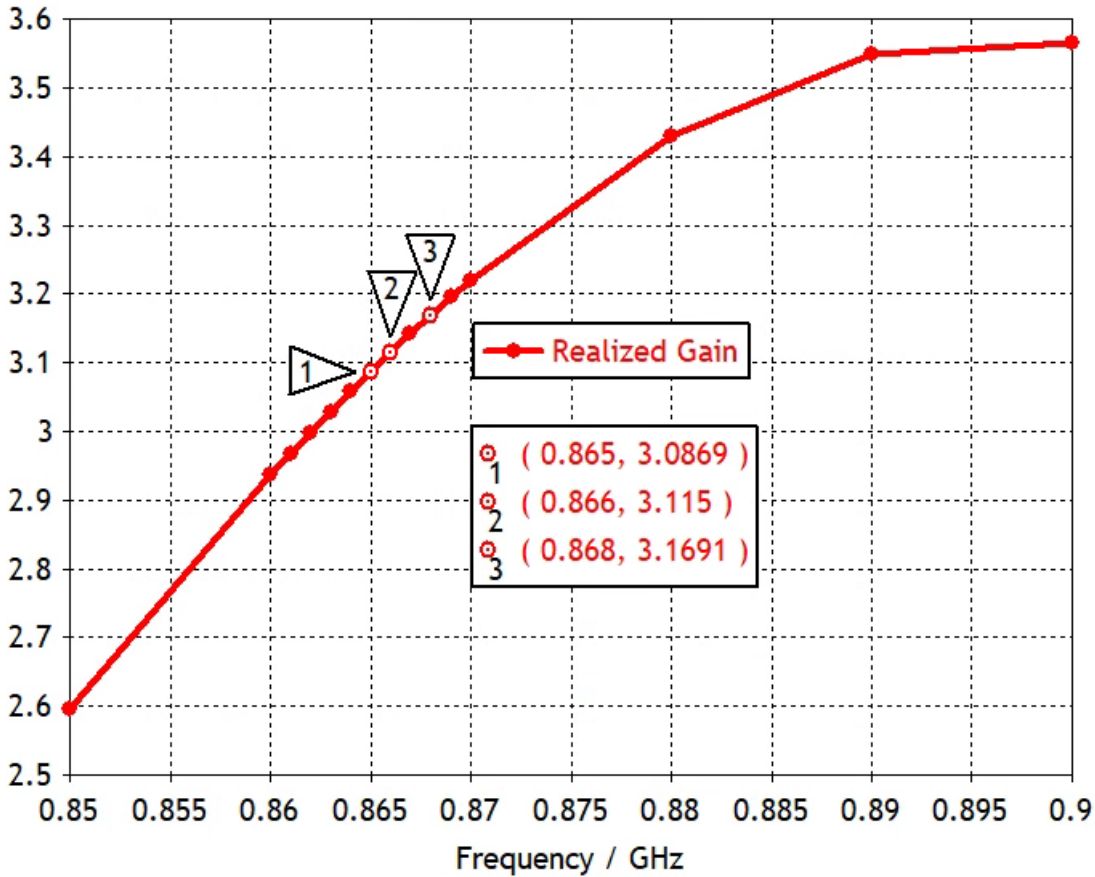


In Linear Scale

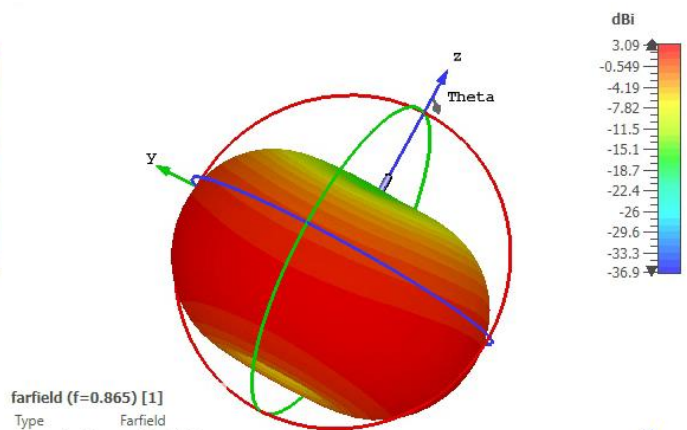
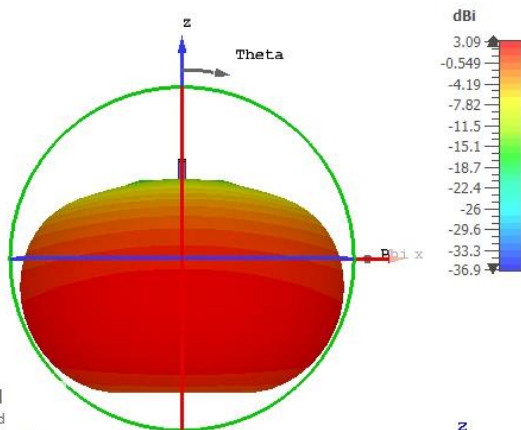
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Realized Gain

Realized Gain



Radiation Pattern at 865MHz



farfield (f=0.865) [1]
 Type Farfield
 Approximation enabled (kR >...
 Component Abs
 Output Realized Gain
 Frequency 0.865 GHz
 Rad. Effic. -0.1224 dB
 Tot. Effic. -0.5834 dB
 Rlzd. Gain 3.087 dBi

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