



TAOGLAS®



Datasheet

Blade

Part No:
TD.95.6H31

Description:

Blade 868/915MHz Omnidirectional Dipole Terminal Mount Antenna
With N-Type Male Connector

Features:

Covers Sigfox/LoRA/ISM Frequencies: 868 and 915 MHz
Mechanically Robust for Indoor/Outdoor Applications
Omnidirectional Dipole (Ground Plane Independent) Antenna
PC/ABS Enclosure
IP67 Waterproof Rated
Connector: N-Type Male Connector
Dimensions: 228*Ø22.8mm
RoHS & Reach Compliant

1. Introduction	3
2. Specifications	4
3. Antenna Characteristics	5
4. Radiation Patterns	8
5. Mechanical Drawing	11
6. Installation Instructions	12
7. Packaging	13
<hr/>	
Changelog	14

Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.

Ireland & USA
ISO 9001:2015
Certified



Taiwan
ISO 9001:2015
Certified



1. Introduction



The Taoglas Blade TD.95.6H31 is a high performance, omnidirectional terminal mount dipole antenna, designed for use with a multiple of SigFox / LoRA / ISM network applications. It covers both widely used frequencies of 868 and 915MHz. The TD.95 uses a robust IP67 rated PC/ABS enclosure, making it ideal for harsh outdoor applications. The TD.95 is a dipole antenna which means that this antenna performs well without a ground plane. It reaches efficiencies of at least 57% with 1dBi Gain whilst maintaining an Omnidirectional pattern for constant reception/transmission.

Typical Applications Include:

- Remote Asset and Metering Monitoring
- Mesh Networks
- Digital Signage

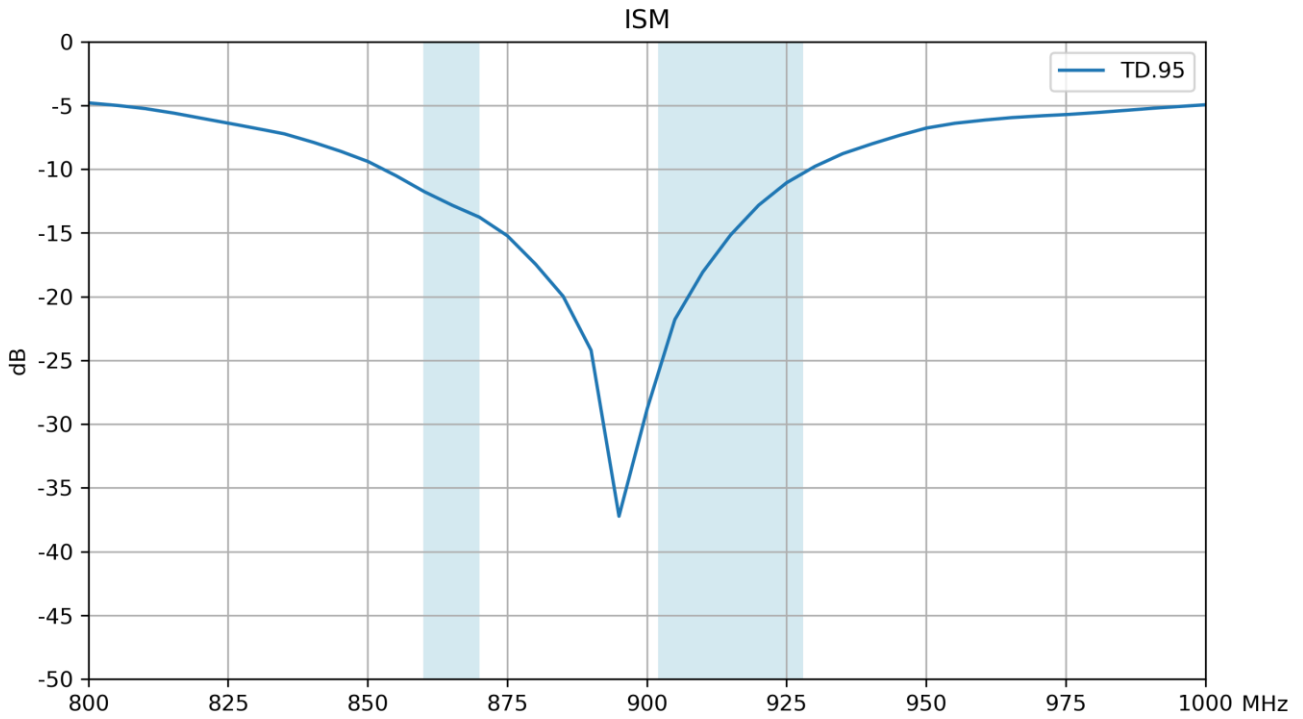
Measuring just 228mm in height and with a diameter of just 22.8mm, the TD.95 is also available in grey, **TD.95.6H31G**, for more inconspicuous installation. The TD.95 antenna is supplied with a direct mount N-Type connector, however, this can be customized subject to MOQ and NRE. For further information regarding customization or installation of this antenna, please contact your regional Taoglas customer support team.

2. Specifications

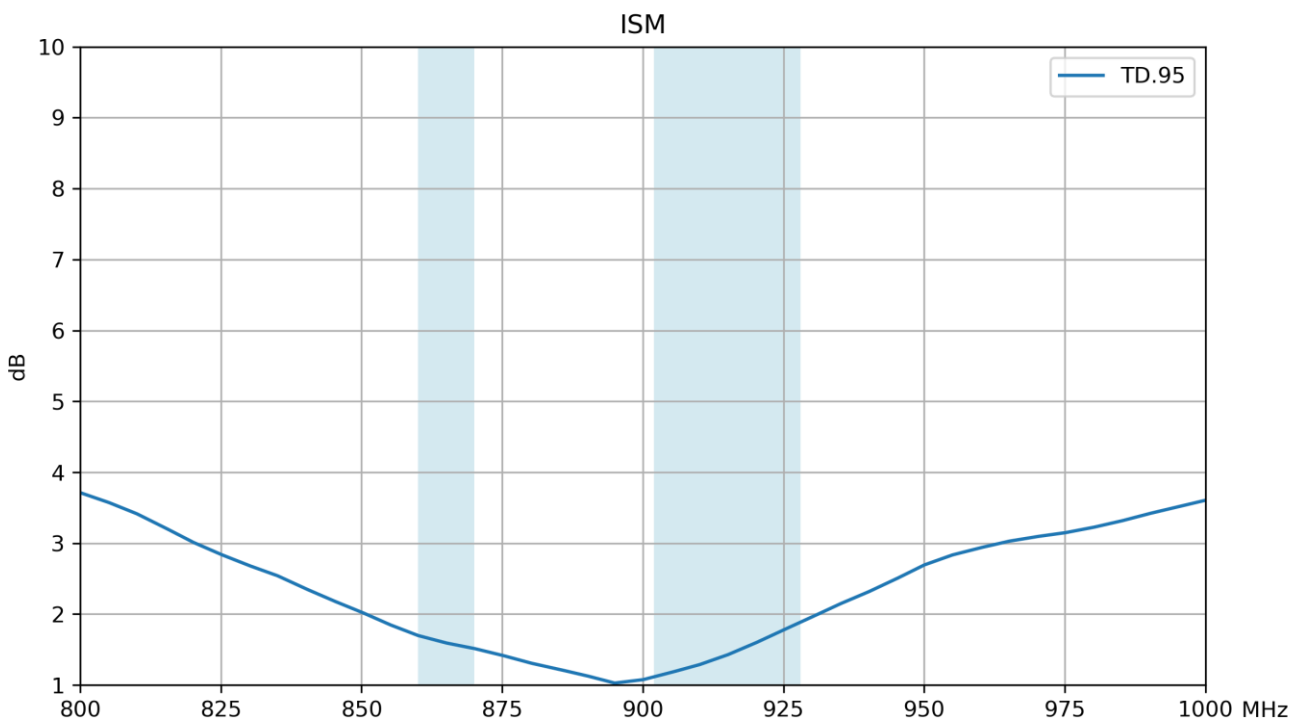
ISM Electrical		
Frequency (MHz)	868	915
Efficiency (%)		
Free Space	57.2	58.9
Average Gain (dB)		
Free Space	-2.43	-2.30
Peak Gain (dBi)		
Free Space	1.33	1.54
Impedance	50 Ω	
Polarization	Linear	
Radiation Pattern	Omni	
Max. input power	10W	
Mechanical		
Dimensions	228*22.8(mm)	
Weight	70g	
Waterproof Rating	IP67	
Material	PC/ABS	
Connector	N-Type(M)	
Environmental		
Temperature Range	-40°C to 85°C	
Humidity	Non-condensing 65°C 95% RH	

3. Antenna Characteristics

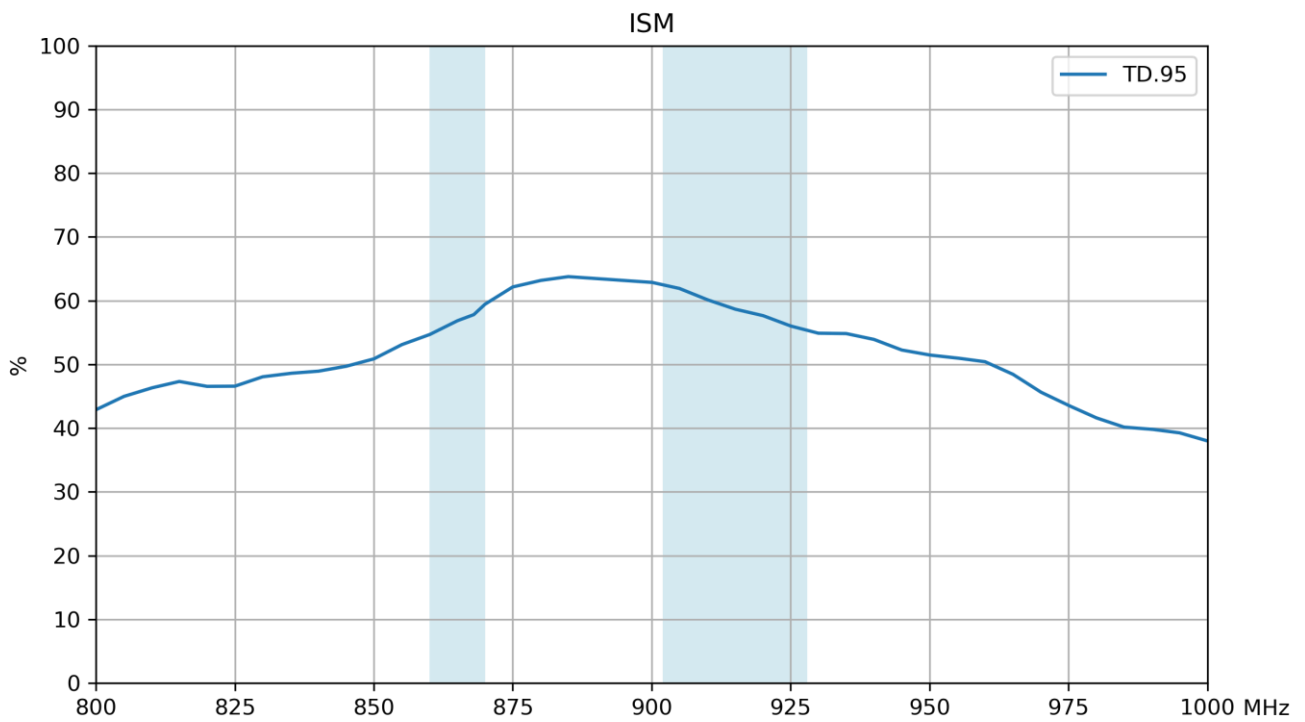
3.1 Return Loss



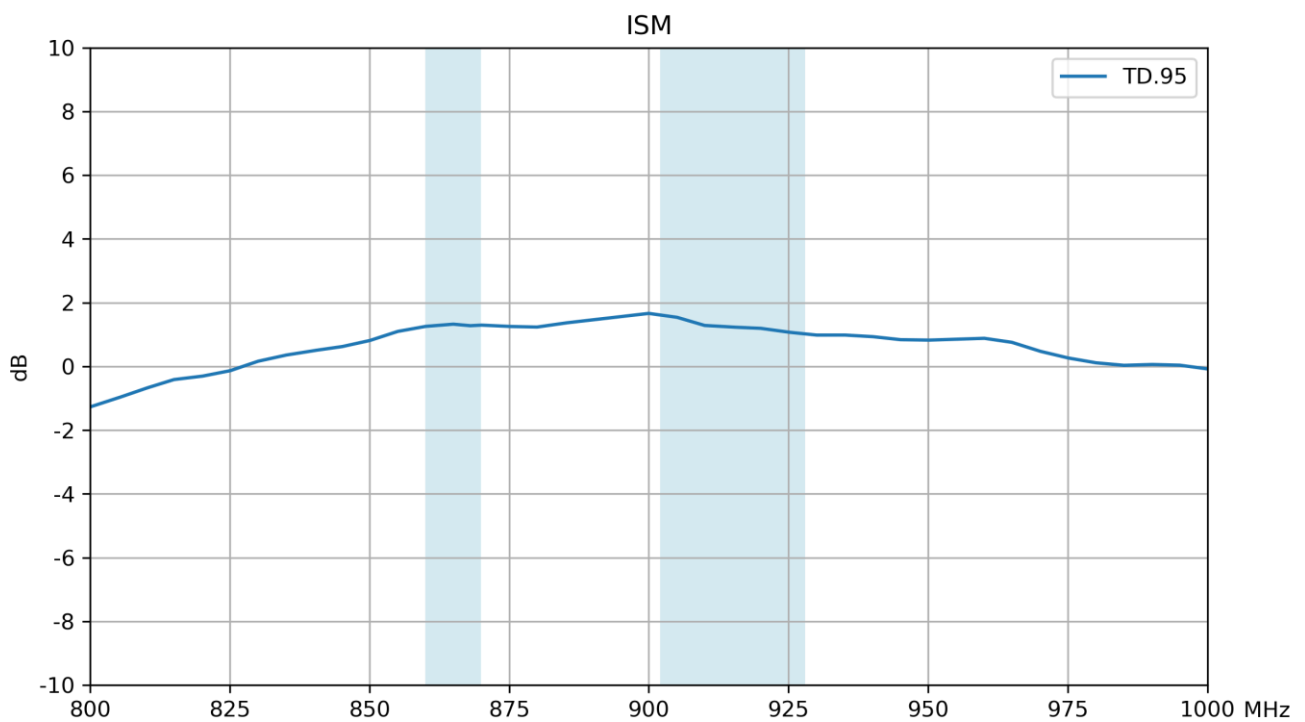
3.2 VSWR



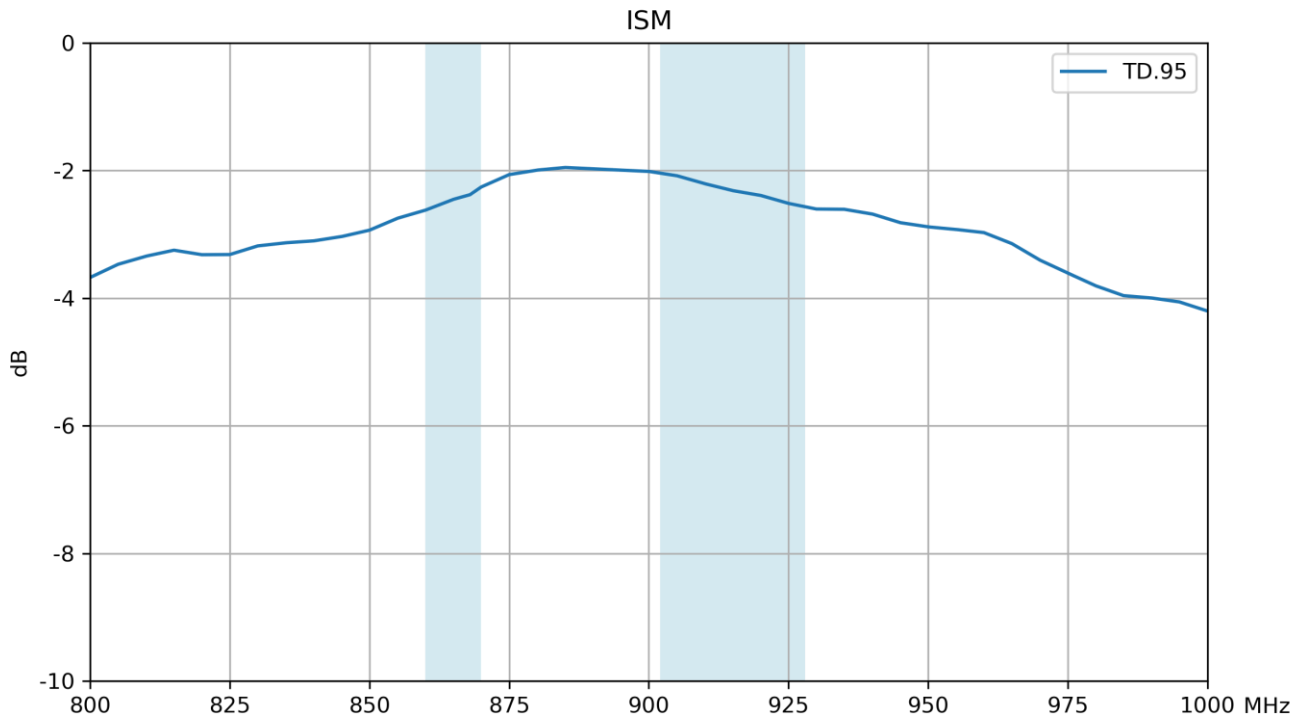
3.3 Efficiency



3.4 Peak Gain

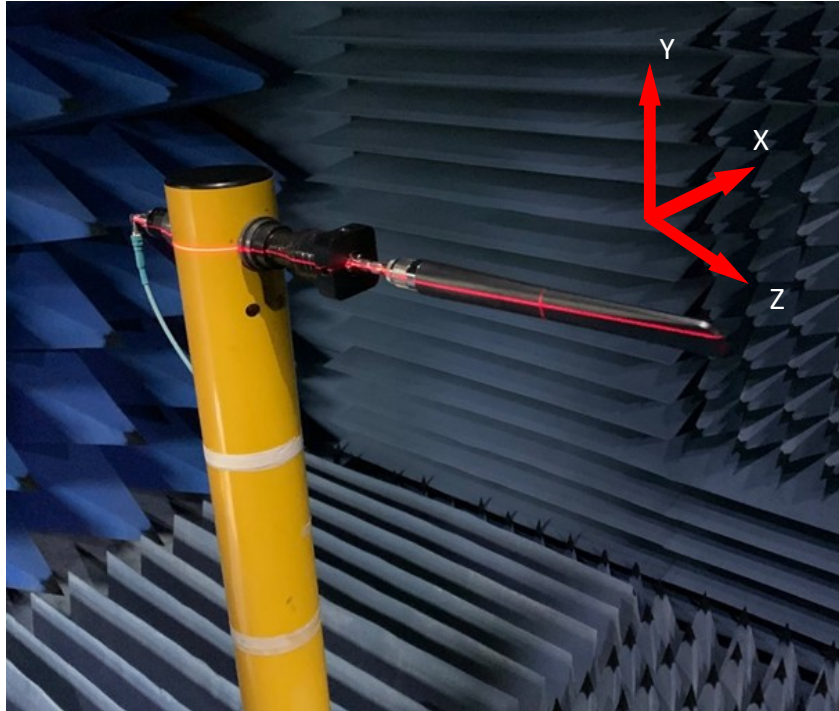


3.5 Average Gain

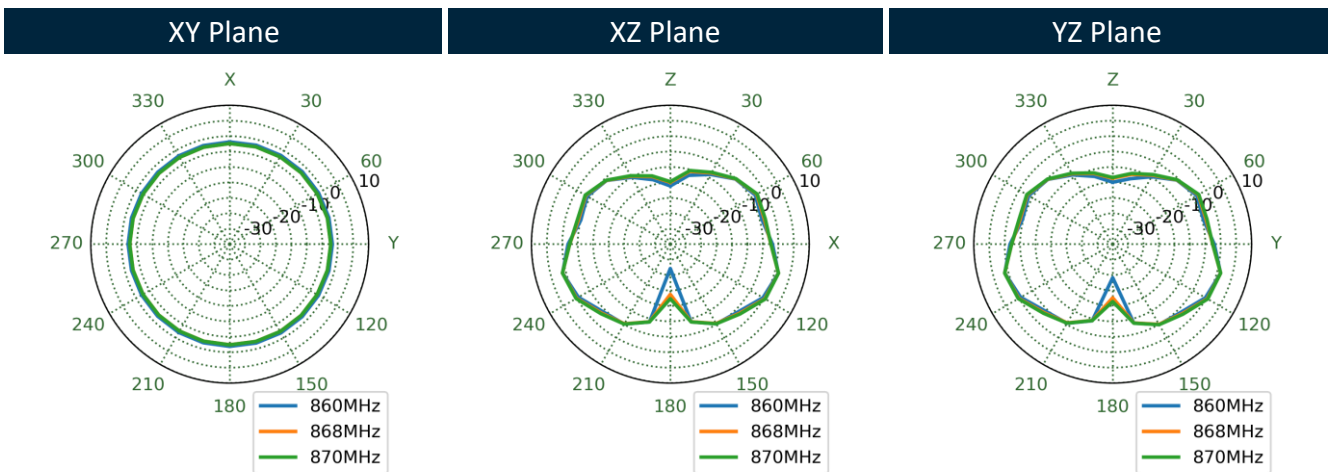
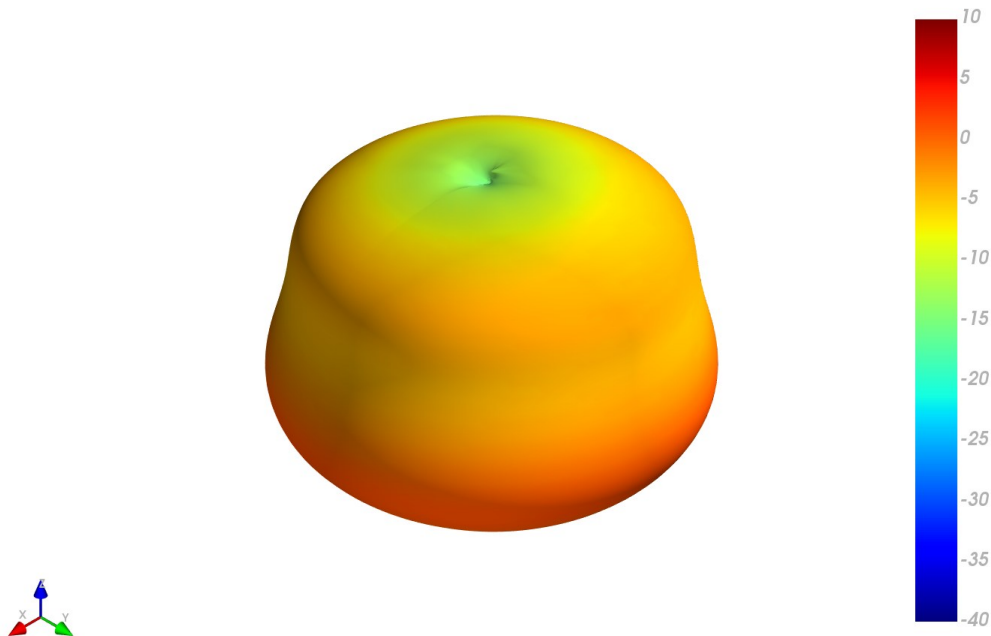


4. Radiation Patterns

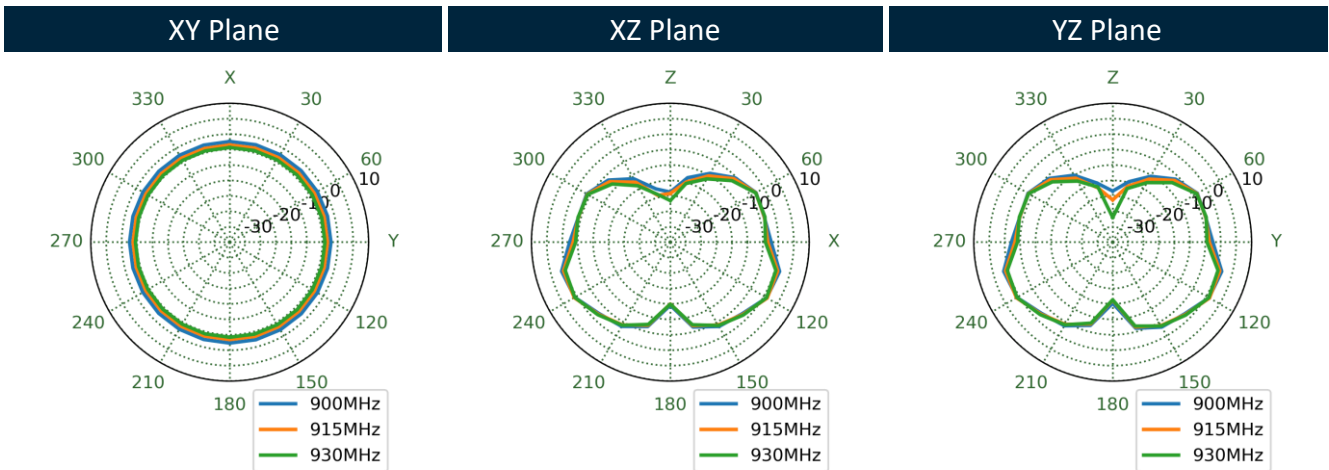
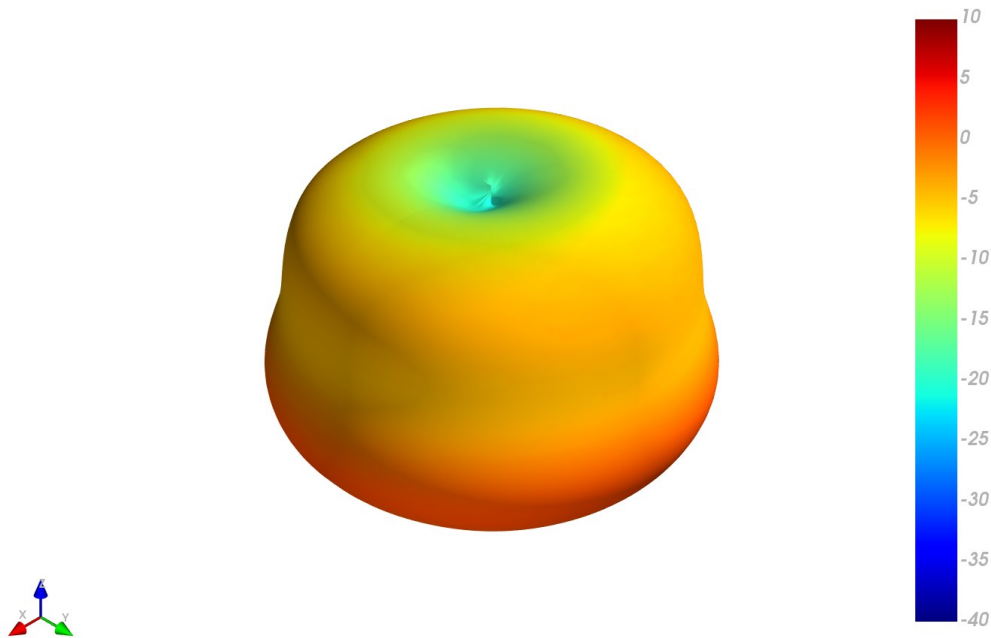
4.1 Test Setup – Free Space



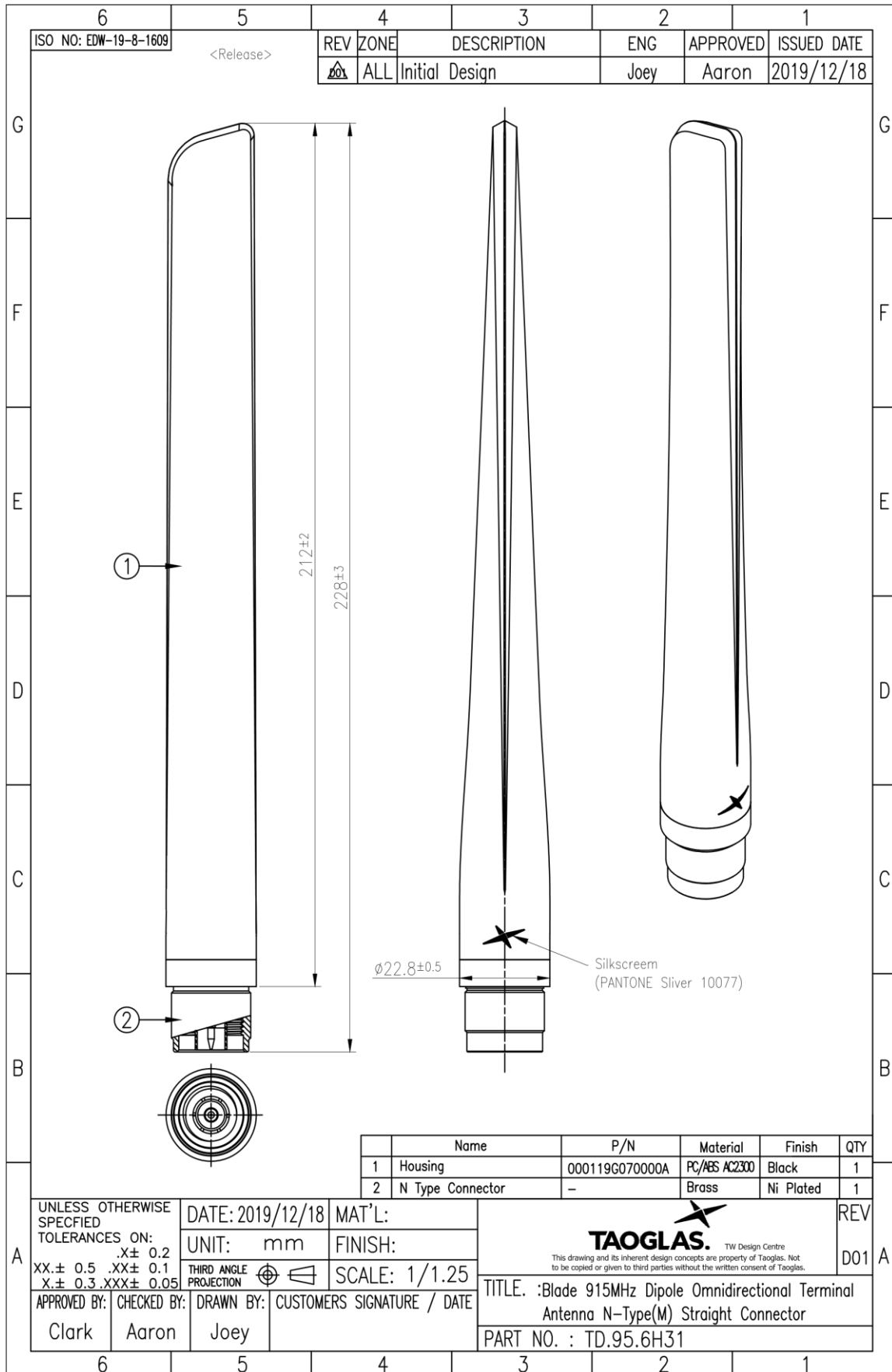
4.2 868MHz 3D and 2D Radiation Patterns



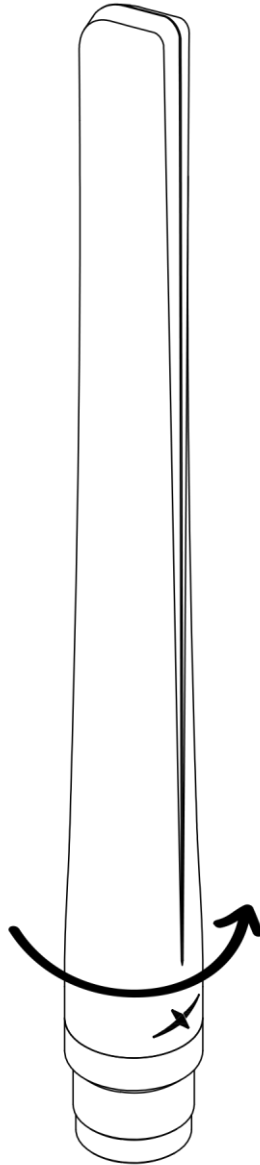
4.3 915MHz 3D and 2D Radiation Patterns



5. Mechanical Drawing (Units: mm)



6. Installation Instructions



The recommended mounting torque for the TD.95 is 5 Nm.

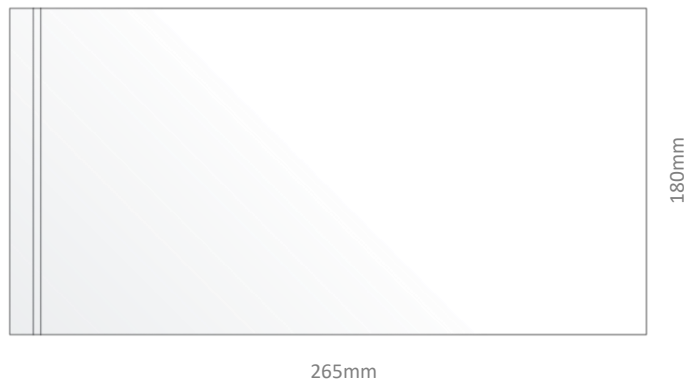
The maximum torque that can be applied is 15 Nm.
Anything in excess of this value may cause damage to the product.

7. Packaging

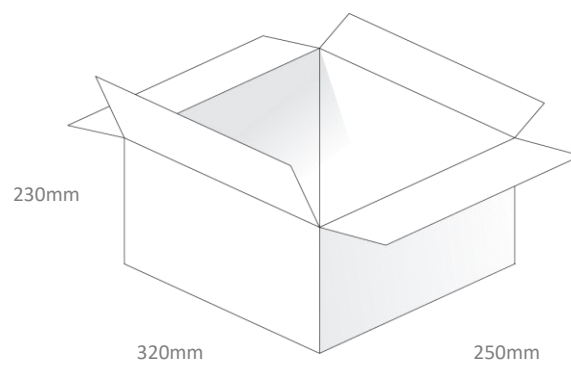
1pc TD.95.6H31 per PE Bag
 Bag Dimension: 200*100mm
 Weight: 70g



20pcs TD.95.6H31 per Large PE Bag
 Bag Dimensions: 180*265mm
 Weight: 1.4Kg



200pcs TD.95.6H31 per Carton
 Dimensions: 320*250*230mm
 Weight: 14Kg



Changelog for the datasheet

SPE-20-8-072 – TD.95.6H31

Revision: B (Current Version)

Date:	2020-06-18
Notes:	Initial Release
Author:	Cesar Sousa

Previous Revisions

Revision: A (Original First Release)

Date:	2020-06-18
Notes:	Initial Release
Author:	Jack Conroy



TAOGLAS®

www.taoglas.com

