



IP67 Rated Terminal Antenna

Part No: TI.96.A113

Description

900-940MHz IP67 Terminal Antenna SMA(M)

Features:

Covering 915MHz ISM Bands

IP67 Waterproof Enclosure

Dimensions: Ø12.7 x 203mm

Connector: SMA(M)

RoHS & Reach Compliant



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1. Introduction



The TI.96.A113 is a high performance 915MHz Terminal mount dipole antenna, it is 203mm tall and 13mm in diameter and can be mounted straight or right angled due to its hinged SMA(M) connector which comes as standard. This antenna performs very well in free space, making it an ideal solution in areas where there may be no ground plane.

The TI.96's IP67 Rating allows it to be used in areas where conventional Terminal mount antennas can't be used, it can be used outdoors or indoors without the fear of water ingress.

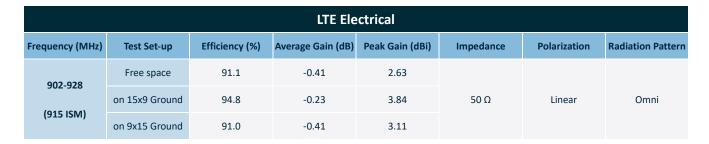
Typical Applications include:

- Smart Metering
- Remote Monitoring
- Industrial IoT
- Connected Enterprise

The TI.96 is manufactured using TPEE which makes it very lightweight at just 22.5g. The swivel and hinge mechanism allows the antenna to be orientated in different directions which helps to avoid other antennas or objects. The antenna connector type can be customizable, please contact your regional Taoglas customer support team for installation guidelines or additional support to integrate and test this antenna's performance in your device.



2. Specification



Mechanical		
Dimensions	Ø12.7 x 203	
Material	PC+PBT	
Connector	SMA(M)	

Environmental		
Operation Temperature	-40°C - +85°C	
Storage Temperature	-40°C - +85°C	
Waterproof Rating	IP67	



3. Antenna Characteristics

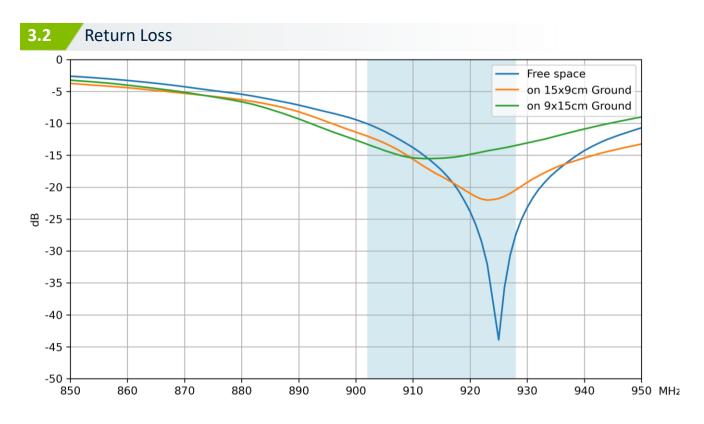
3.1 Test Set-up

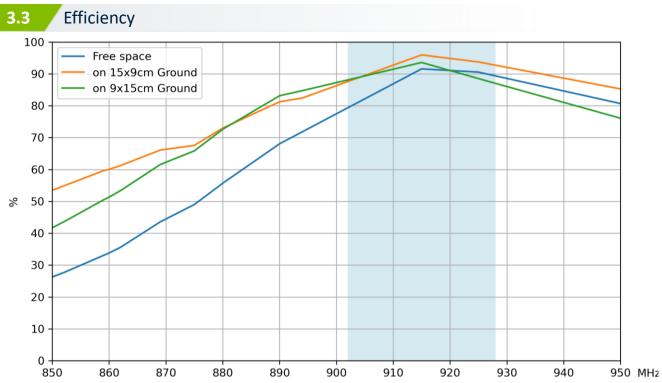




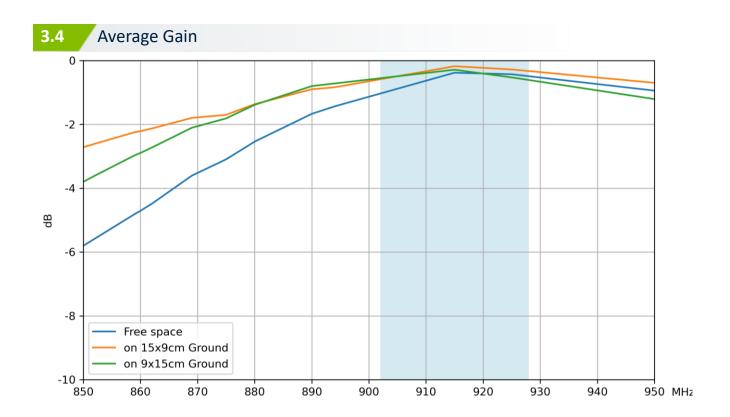
Free space On 15x9cm Ground On 9x15cm Ground



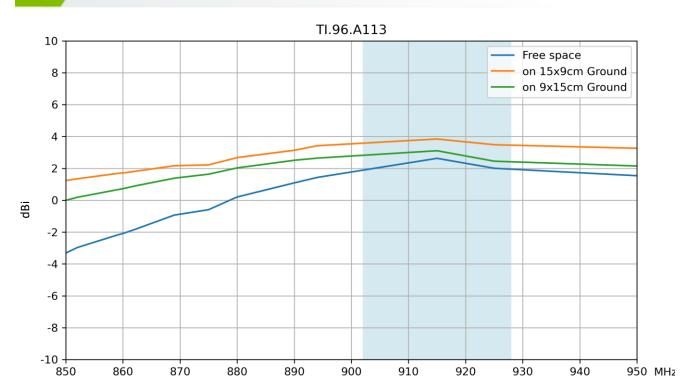








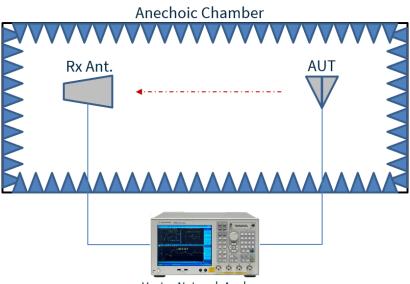
3.5 Peak Gain



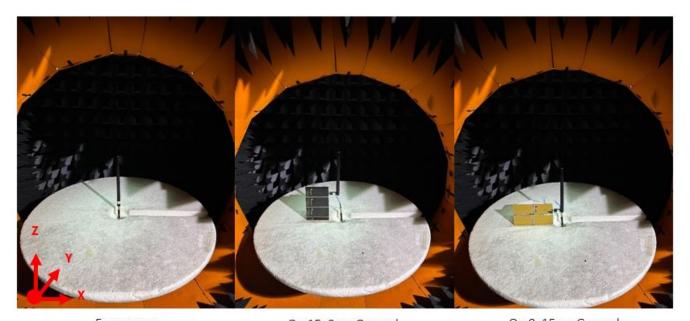


4. Radiation Patterns

4.1 Test Setup



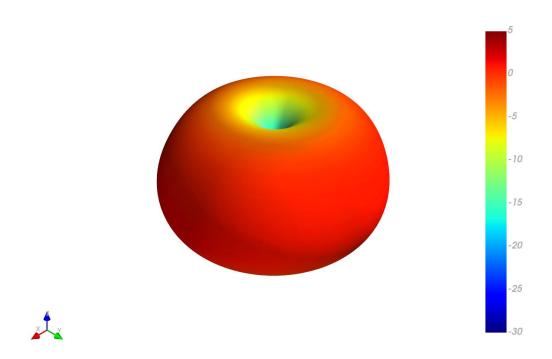
Vector Network Analyzer

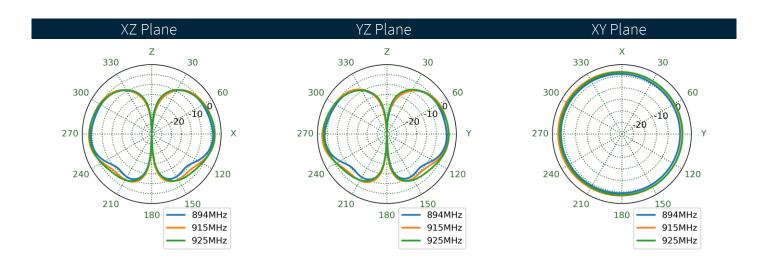


Free space On 15x9cm Ground On 9x15cm Ground



4.2 Free space - Patterns at 915 MHz

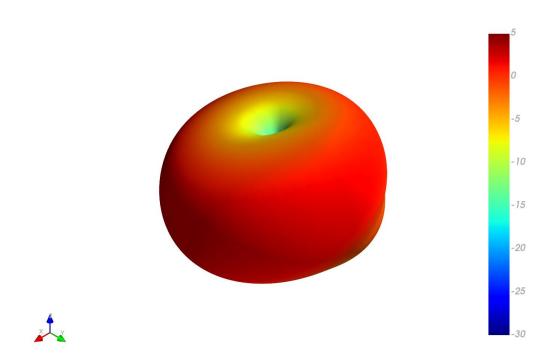


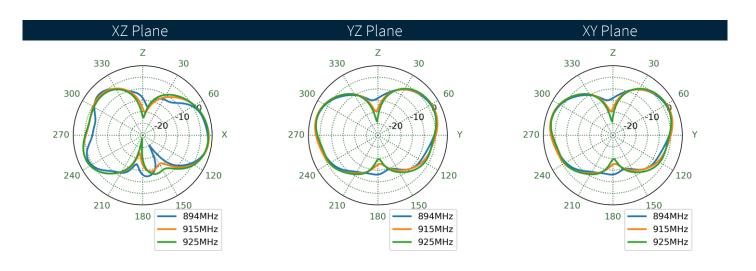




On 15x9cm Ground - Patterns at 915 MHz

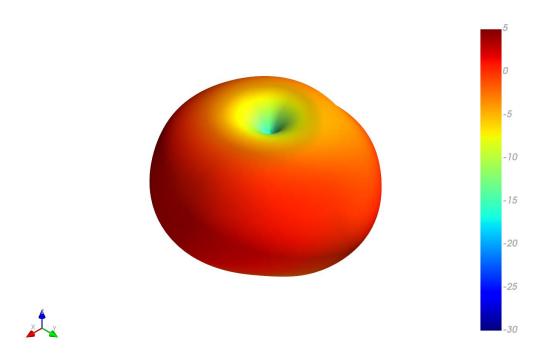
4.3

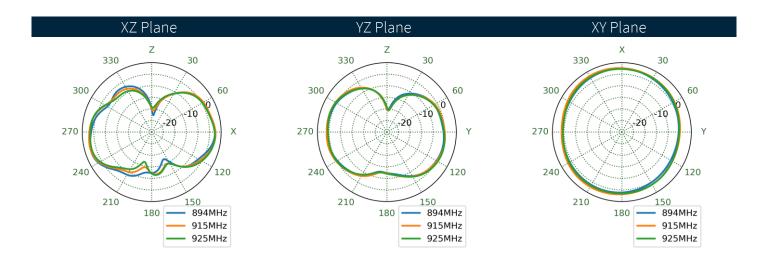






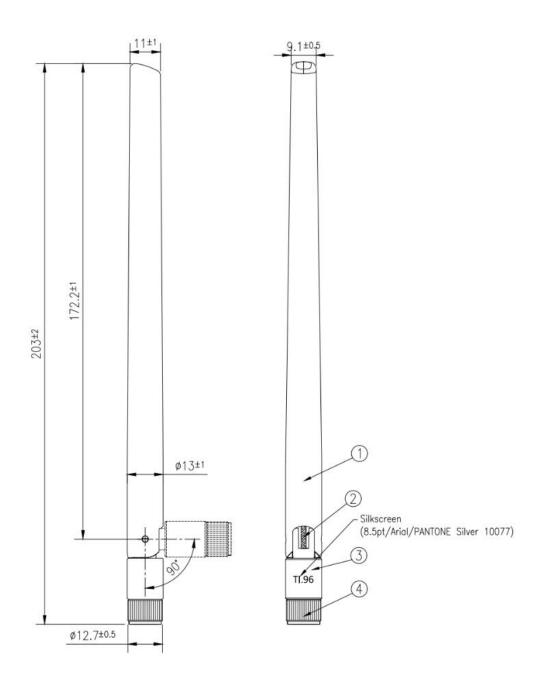
4.4 On 9x15cm Ground - Patterns at 915 MHz







5. Mechanical Drawing



	Name	Material	Finish	QTY
1	Radome	PC+PBT	Black	1
2	RG178 coaxial cable	FEP	Brown	1
3	Lower Holder	PC+PBT	Black	1
4	SMA(M)	PC+PBT	Black	1



6. Packaging

TBD



Changelog for the datasheet

SPE-23-8-276 - TI.96.A113

Revision: A (Original First Release)		
Date:	2023-09-27	
Notes:	Initial Release	
Author:	Gary West	

Previous Revisions





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