



## 915/868MHz Terminal Antenna

Part No: TI.08.C.0112

#### **Description**

915MHz/868MHz ISM Band Terminal Antenna Fixed Right-Angle SMA(M) Connector

#### **Features:**

Omni-Directional Dipole Antenna

TPU Housing

Dimensions: 53x17mm

SMA Male Right Angle Connector

RoHS & Reach Compliant



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## 1. Introduction



The Taoglas TI.08.C.0112 is a high performance antenna covering both 915MHz and 868MHz, small form factor, dipole omni-direction terminal mount antenna. This antenna features an SMA(M) right angle connector as standard.

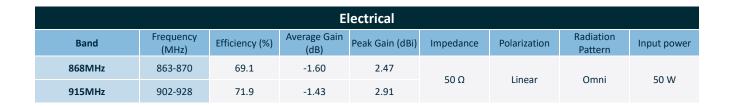
Some typical applications include:

- Smart Lighting
- Remote Monitoring
- IoT (Internet of Things)
- Smart Metering

This antenna is fabricated using TPU, which is a lightweight robust material used on several other Taoglas products. The TI.08.0112 can function impressively with a small ground plane while maintaining high efficiencies, on the band 863~870 it can reach at least 53% on a 15x9cm ground plane. The antenna connector type can be customizable, please contact your regional Taoglas sales facility for support.



# 2. Specification



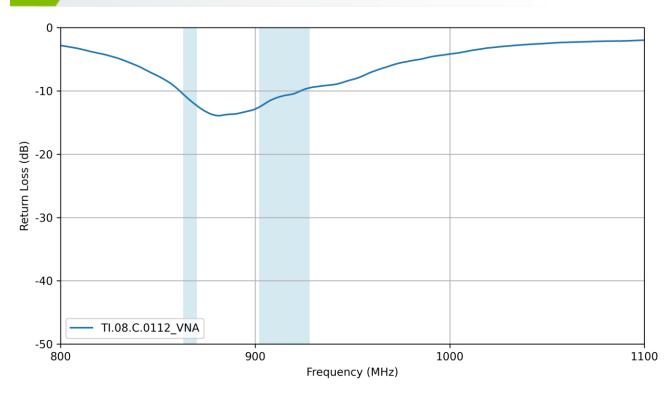
Mechanical				
Height	53 ± 2 mm			
Diameter	Ø7 ± 0.2 mm			
Width	17 ± 0.8 mm			
Casing	TPU			
Connector	SMA(M) RA			

	Environmental
Temperature Range	-40°C to 70°C

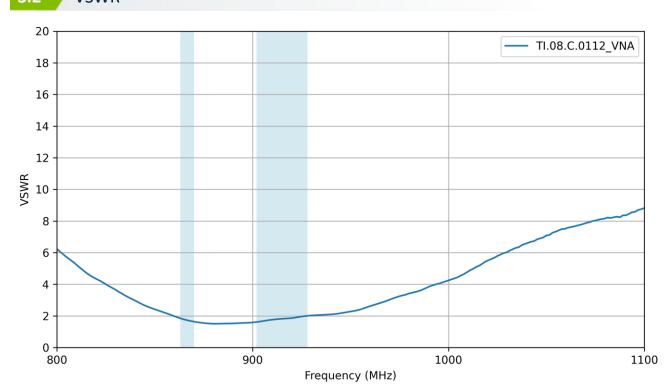


# 3. Antenna Characteristics

## 3.1 Return Loss

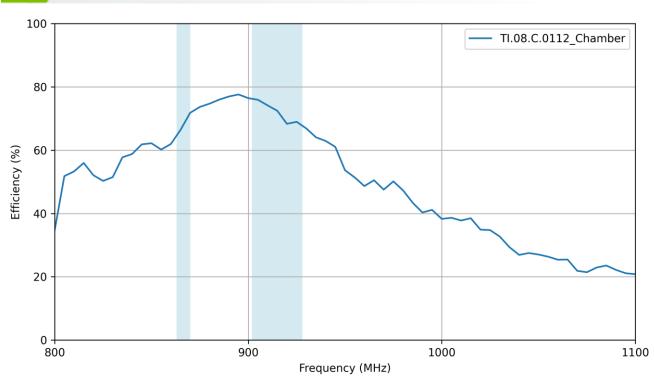


### 3.2 VSWR

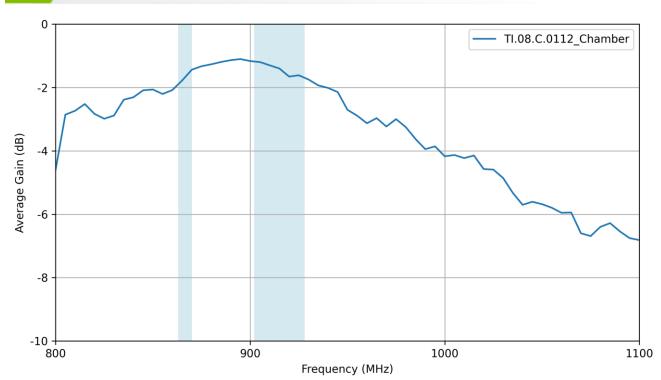






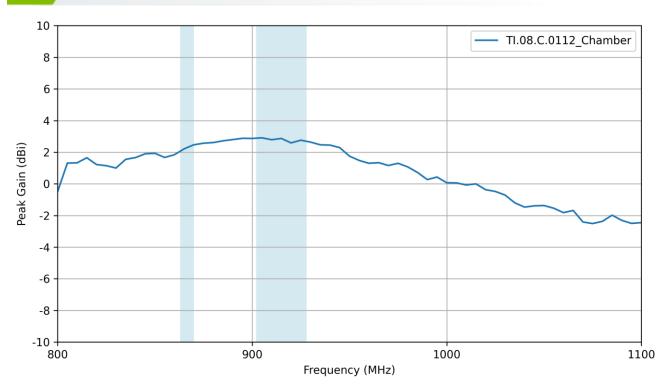


## 3.4 Average Gain





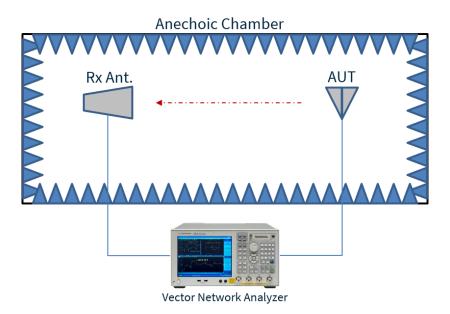
## 3.5 Peak Gain





# 4. Radiation Patterns

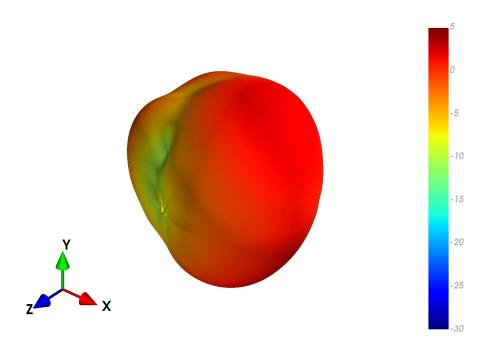
## 4.1 Test Setup

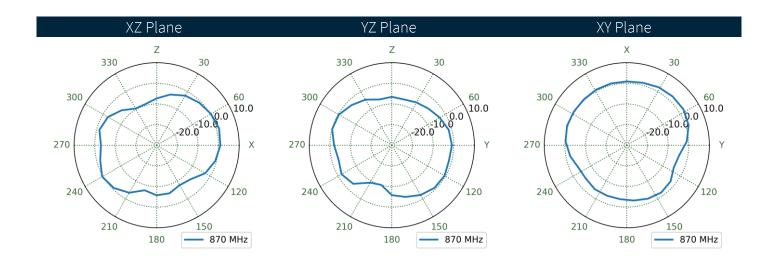






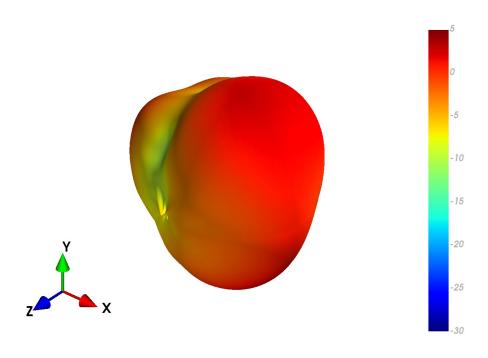
## TI.08.C.0112\_Chamber Patterns at 868 MHz

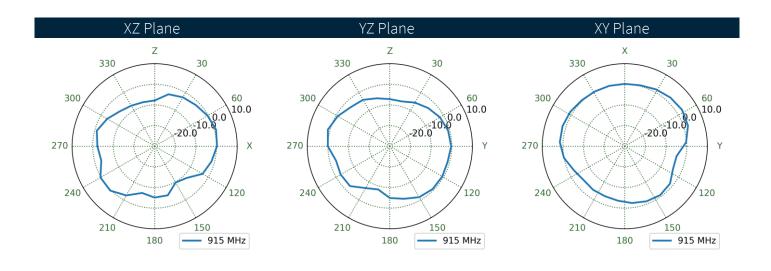






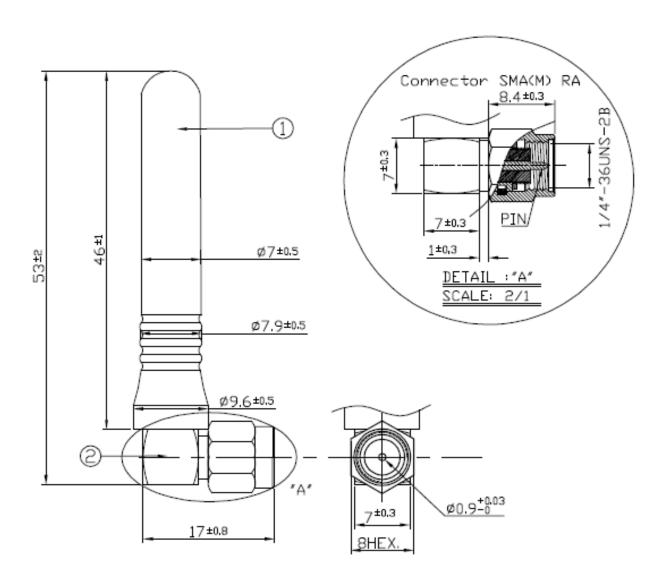
## TI.08.C.0112\_Chamber Patterns at 915 MHz







# Mechanical Drawing



	Name	P/N	Material	Finish	QTY
1	Antenna Cover	000111G000002A	TPU	Black	1
2	SMA(M) RA	210211G010002A	Brass	Gold	1



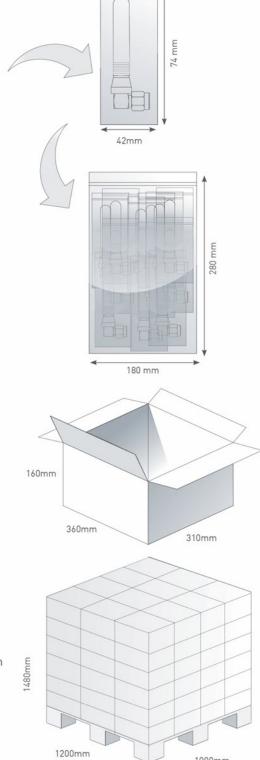
# Packaging

1 pcs TI.08.C.0112 per PE Bag PE Bag Dimensions - 42\*74mm Weight - 7.5g

100 PE Bags per Large PE Bag 100 pcs TI.08.C.0112 per Large PE Bag Large PE Dimensions - 180\*280mm Weight - 0.761kg

15 Large PE bags per carton 1500 pcs TI.08.C.0112 per carton Carton Dimensions - 360\*310\*160mm Weight - 12kg

Pallet Dimensions 1200mm\*1000mm\*1480mm 72 Cartons per Pallet 9 Cartons per layer 8 Layers



1000mm



#### SPE-11-8-039 - TI.08.C.0112

Revision: D (Current Version)				
Date:	2022-12-09			
Changes:	Full datasheet update			
Changes Made by:	Gary West			

#### **Previous Revisions**





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