

868MHz Terminal Antenna

Part No: TI.08.C.0112

Description:

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 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.

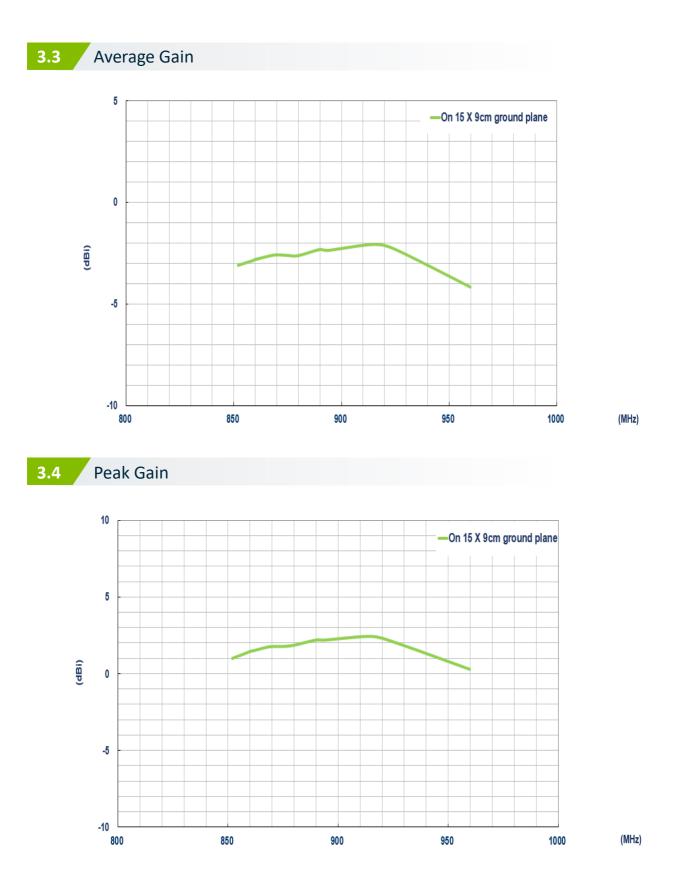
ISM				
Frequency (MHz)	863~870	902~928		
Peak Gain (dBi)				
On 15 X 9cm ground plane	1.75	2.43		
Average Gain (dBi)				
On 15 X 9cm ground plane	-2.74	-2.26		
Efficiency (%)				
On 15 X 9cm ground plane	53.22	59.37		
Impedance	50Ω			
Polarization	Linear			
Radiation Pattern	Omni-Directional			
Input Power	50 W			
Mechanical				
Height	53 ± 2 mr	n		
Diameter	Diameter Ø7±0.2 mm			
Width	Width 17 ± 0.8 mm			
Casing	TPU			
Connector	SMA(M) RA			
Environmental				
Temperature Range	-40°C to 70)°C		













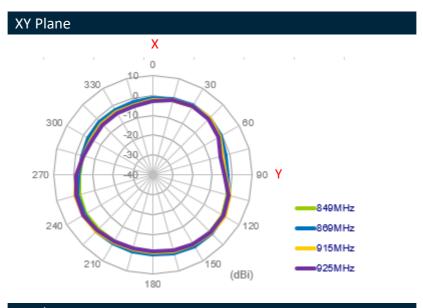
4.1 Test Setup

4.

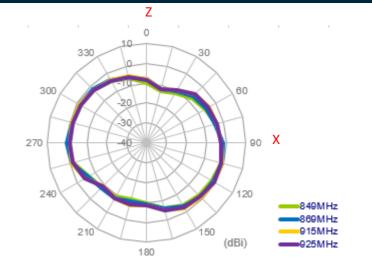


On 15 X 9cm ground plane

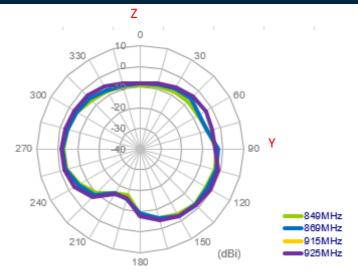




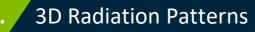
XZ Plane

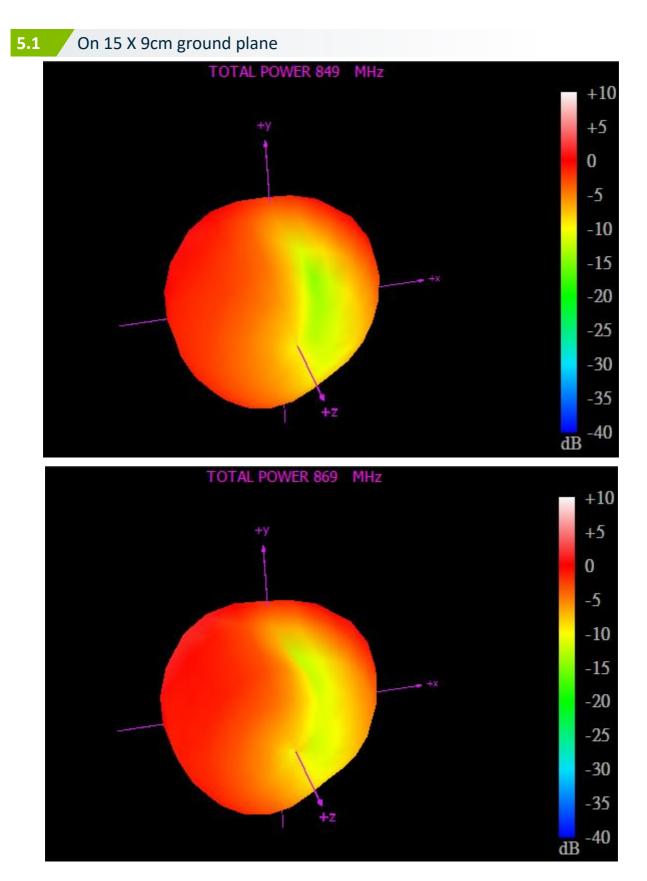


YZ Plane



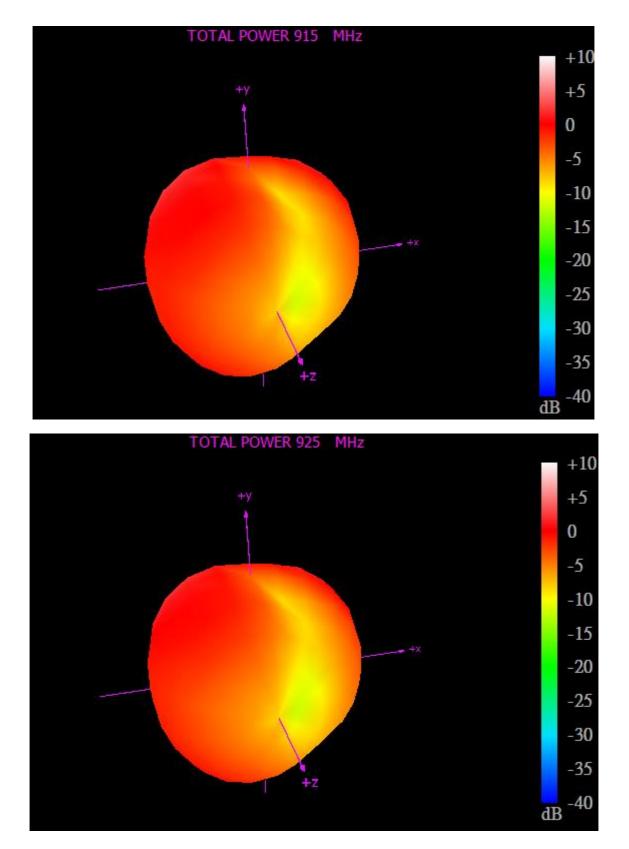






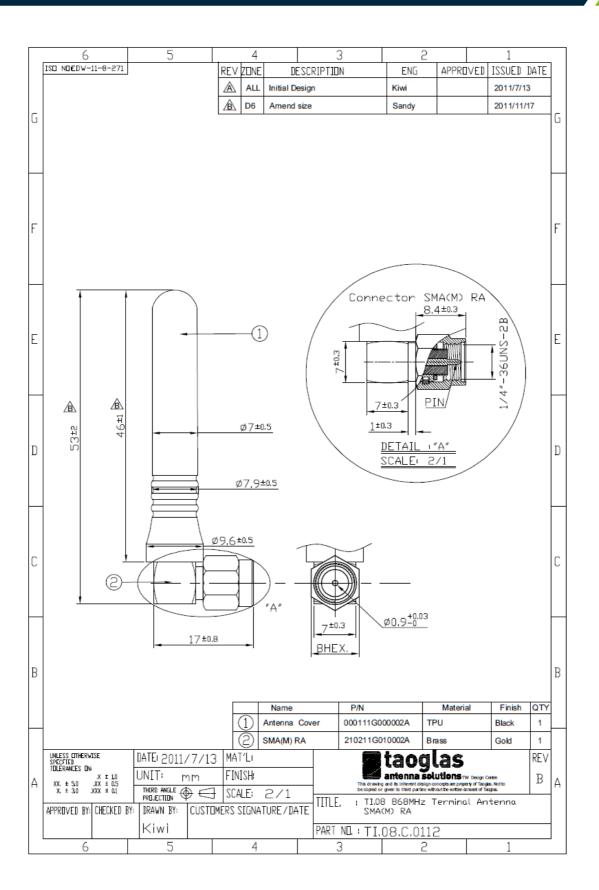
5.







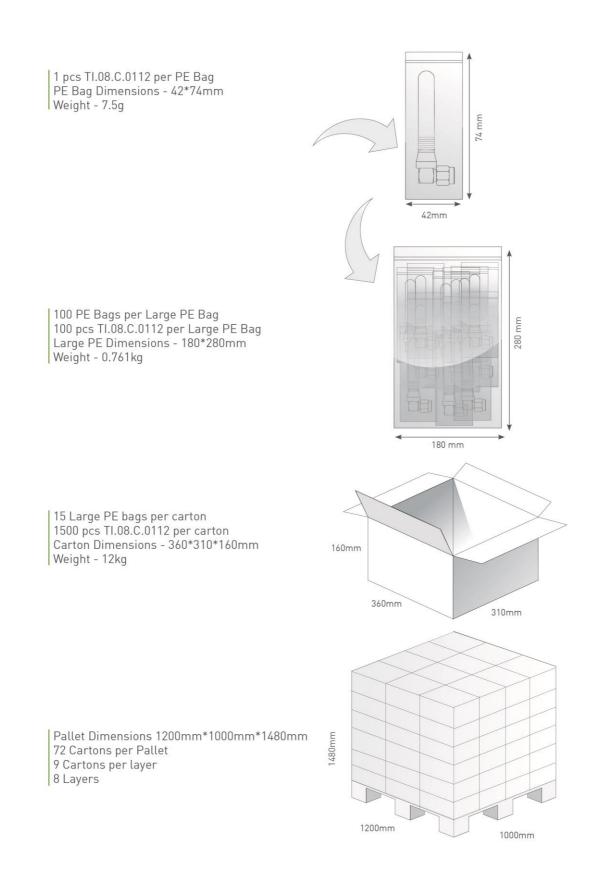
Mechanical Drawing (Units: mm)



6.



7. Packaging





Changelog for the datasheet

SPE-11-8-039 – TI.08.C.0112						
Revision: C (Current Version)						
Date:	2019-04-02					
Changes:	Added new introduction and data					
Changes Made by:	Jack Conroy					

Previous Revisions

Revision: B		
Date:	2011-11-15	
Changes:	Packaging amended	
Changes Made by:	Aine Doyle	

Revision: A (Original First Release)			
Date:	2011-07-16		
Notes:			
Author:	Aine Doyle		



Previous Revisions (Continued)				





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