



TI.85.2113 868MHz Terminal Mount Dipole Antenna Part No: TI.85.2113

Description:

ISM 868MHz Terminal Dipole Antenna 2dBi SMA(M) Hinged

Features:

ISM 868MHz Band Operation High Efficiency up to 76% Hinged SMA (M) Connector Height: 198mm Diameter: 13mm RoHS & Reach Compliant

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1. Introduction



The TI.85.2113 is a high performance 868MHz Terminal mount dipole antenna, it is 198mm 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.

Typical Applications include:

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

The TI.85 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.



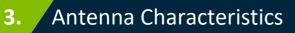
Specifications

Electrical					
Frequency (MHz)	ISM 868				
	860~870				
Efficiency (%)					
Straight	75.17				
Bent	76.72				
Average Gain (dB)					
Straight	-1.24				
Bent	-1.15				
	Peak Gain (dBi)				
Straight	1.31				
Bent	2.04				
Impedance	50 Ω				
Polarization	Linear				
Radiation Pattern	Omni				
Max. input power	1W				

Mechanical				
Height	198 ±3.3 mm			
Planner Dimension	198*ø13 mm			
Casing	TPEE			
Connector	SMA(M)			
Weight	22.5 g			
Temperature Range	-40°C to 85°C			
Humidity	Non-condensing 65°C 95% RH			

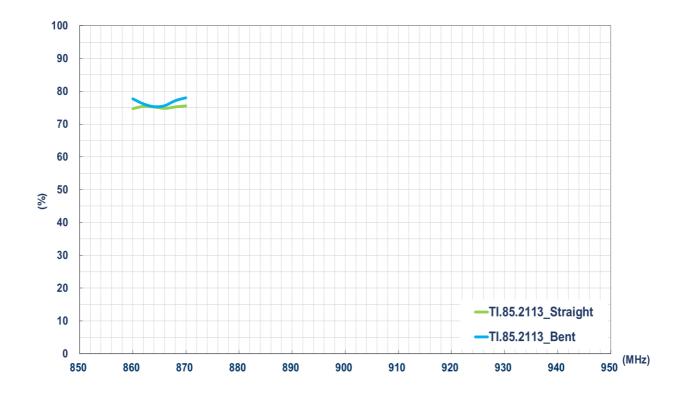
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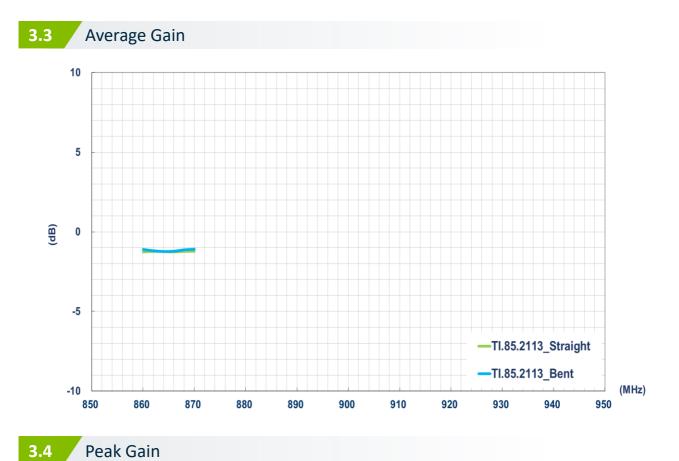




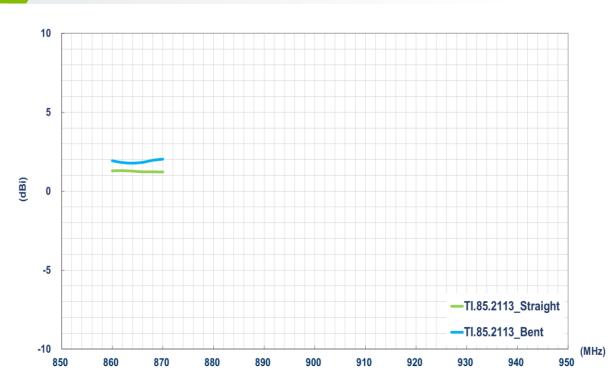














4.1 Test Setup



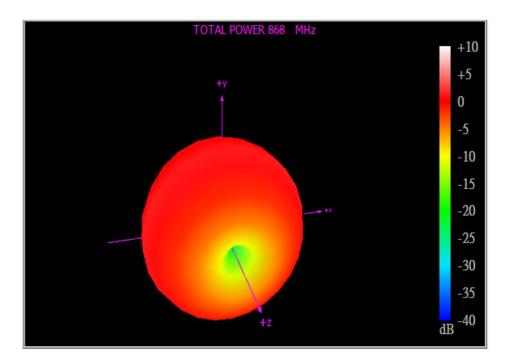
Free space - Straight

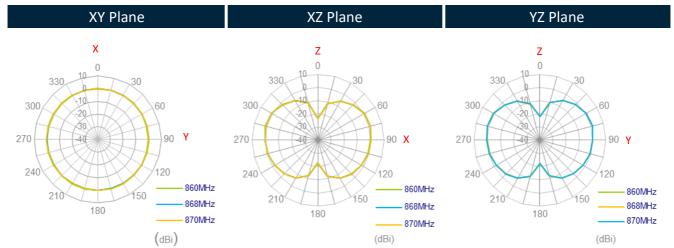


Free space - Bent



4.2 868MHz 3D and 2D Radiation Patterns - Straight

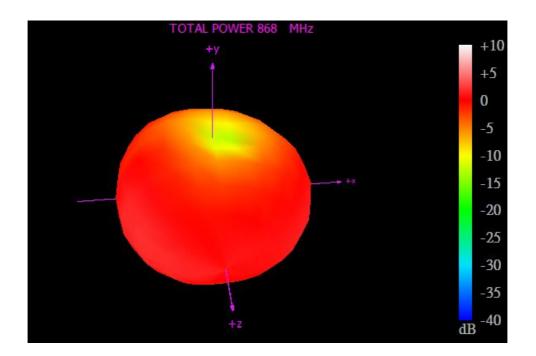


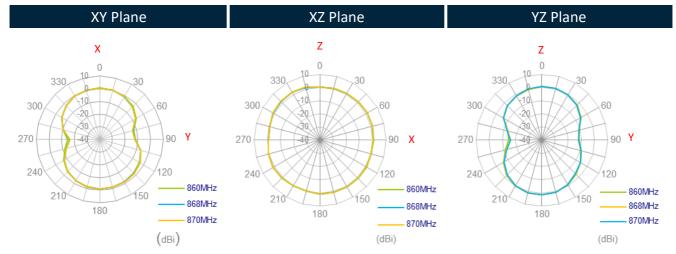


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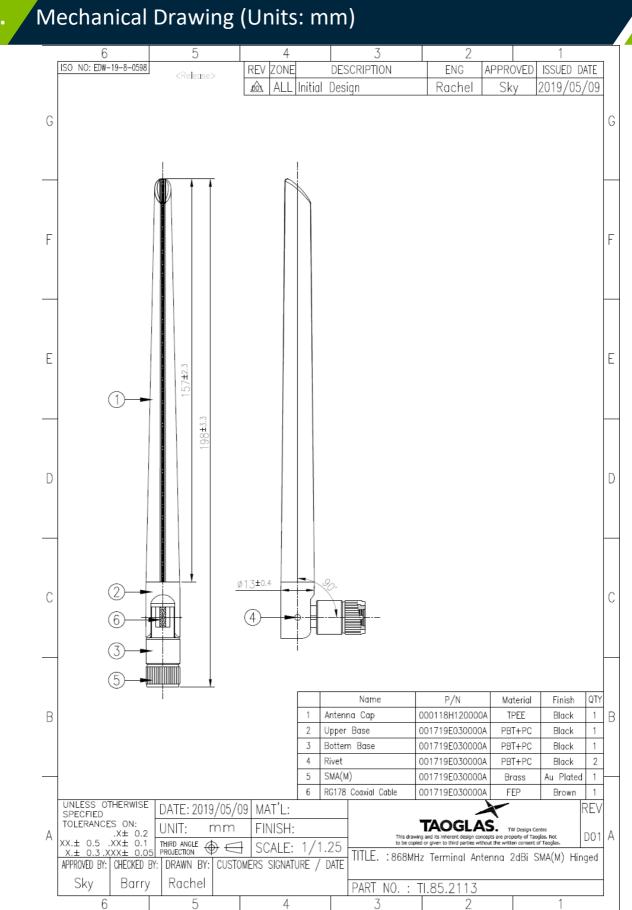


4.3 868MHz 3D and 2D Radiation Patterns - Bent





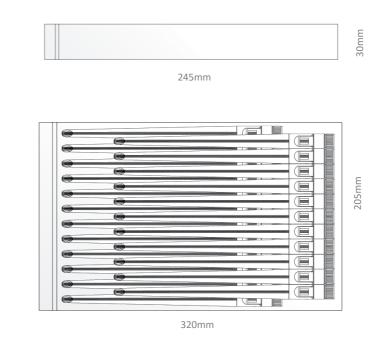






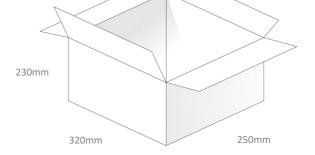
6. Packaging

1pc TI.85.2113 per PE Bag Tray Dimension: 245*30mm Weight: 22.5g

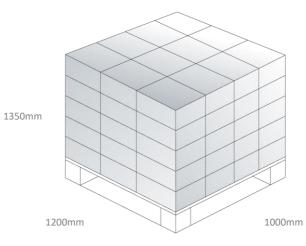


40pcs TI.85.2113 per Large PE Bag Bag Dimensions: 320*205mm Weight: 0.9Kg

400pcs TI.85.2113 per Carton Dimensions: 320*250*230mm Weight: 10Kg



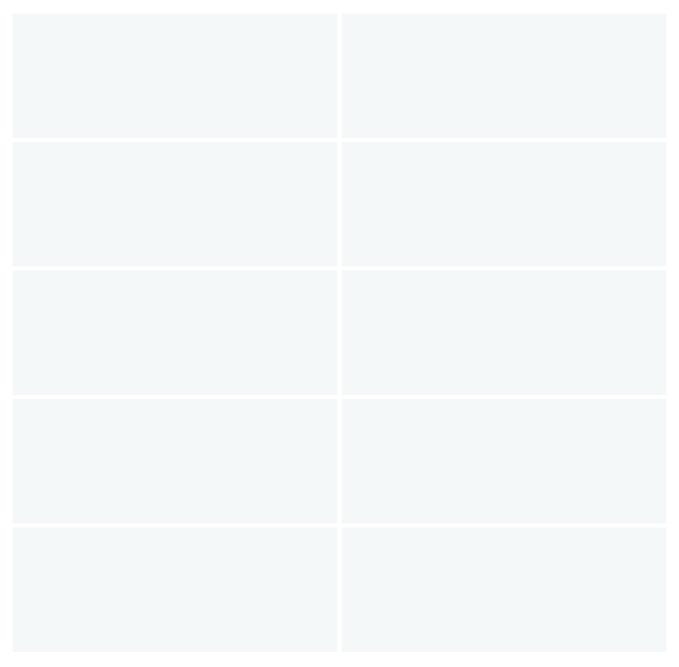
Pallet Dimensions: 1200*1000*1350mm 60 Cartons Per Pallet 12 Cartons Per Layer, 5 Layers





Changelog for the datasheet					
SPE-19-8-075 – TI.85.2113					
Revision: A (Original	l First Release)				
Date:	2019-06-12				
Notes:					
Author:	Jack Conroy				

Previous Revisions





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