



915MHz Road Marker Antenna

Part No: RI.09.A.0121

Description:

902-928MHz Adhesive Direct Mount Road Marker Antenna

Features:

Adhesive Roadmarker

902-928MHz Band

IK10 Rated Housing

Vandal resistant PP housing

SMA(F) Direct Mount

RoHS & REACH Compliant



6. Packaging 12			
 3. Antenna Characteristics 4. Radiation Patterns 5. Mechanical Drawing 6. Packaging 12 	1.	Introduction	3
 4. Radiation Patterns 5. Mechanical Drawing 6. Packaging 12 	2.	Specifications	4
5. Mechanical Drawing6. Packaging12	3.	Antenna Characteristics	5
6. Packaging 12	4.	Radiation Patterns	7
	5.	Mechanical Drawing	11
Changelog 13	6.	Packaging	12
		Changelog	13

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.















The Taoglas RI.09.A.0121 is an Adhesive Roadmarker antenna designed for use in conjunction with "Bott's dots". The UV and vandal resistant, non-reflective, low-profile housing allows it to be directly mounted onto the pavement or road. The RI.09 has been designed for the 902-928MHz ISM band and uses the existing Roadmarker style housing created by Taoglas with a new style direct mount SMA female connector.

This antenna can be used in many different applications, such as:

- Remote Monitoring
- Smart Metering
- Security

When installing this antenna, the SMA female direct mount can be used to directly mount onto a surface, Taoglas can also supply a customized cable with connector to suit a customer's needs. The 3M VHB 4955 Adhesive is used to mount this antenna onto the required surface.

All cable and connectors are customizable, contact your regional Taoglas sales office for customization and additional support.



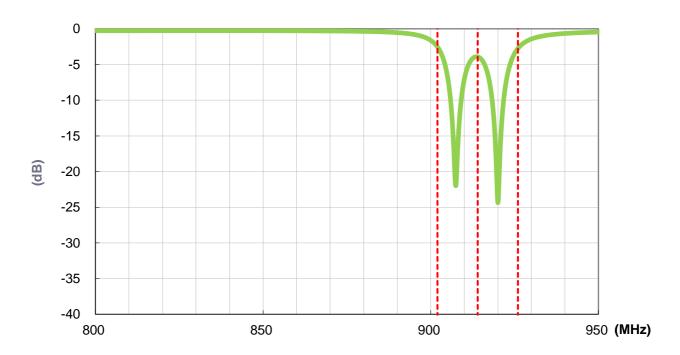
2. Specifications

		Electrical	
Frequency (MHz)	902MHz	915MHz	926MHz
		Peak Gain (dBi)	
	1.74	3.15	1.59
		Average Gain (dB)	
	-5	-3.48	-5.09
		Efficiency (%)	
	31.64	44.9	30.95
Impedance		50Ω	
Polarization		Linear	
Radiation Pattern		Omni	
Input Power		10W	
		Mechanical	
Diameter		101.4mm	
Height		17.6mm	
Casing		PP	
Connector		SMA Female Direct Mount	
Housing		IK 10	
Shock (Drop Test)		1m drop on concrete 6 axes	
		Environmental	
Temperature Range		-40°C to 85°C	
Humidity		Non-condensing 65°C 95% RH	
Corrosion		5% NaCl for 96hrs	

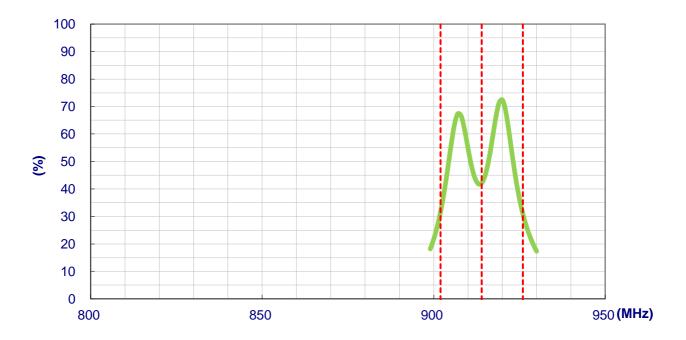


3. Antenna Characteristics

3.1 Return Loss

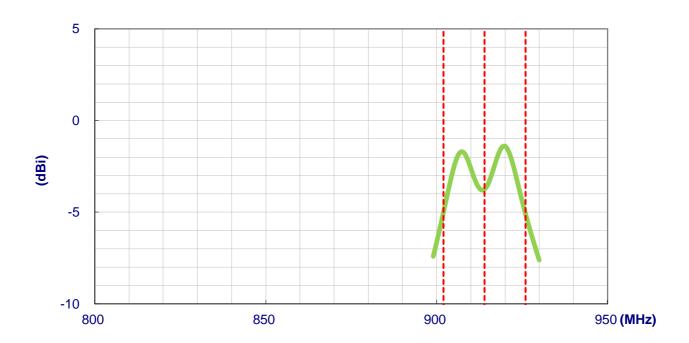


3.2 Efficiency

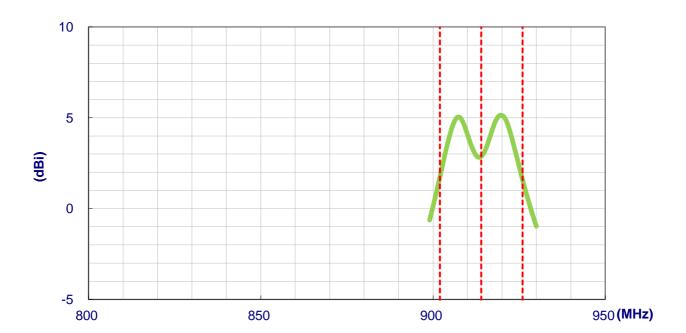




3.3 Average Gain



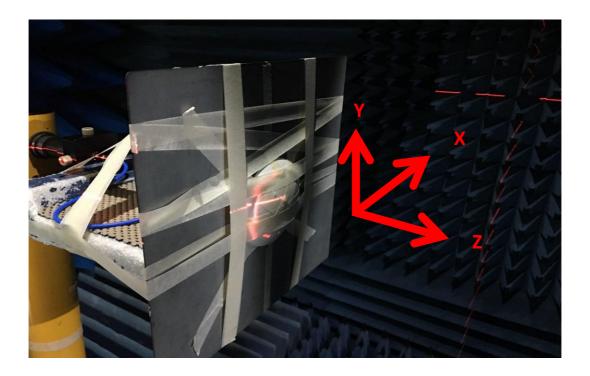
3.4 Peak Gain





4. 2D Radiation Patterns

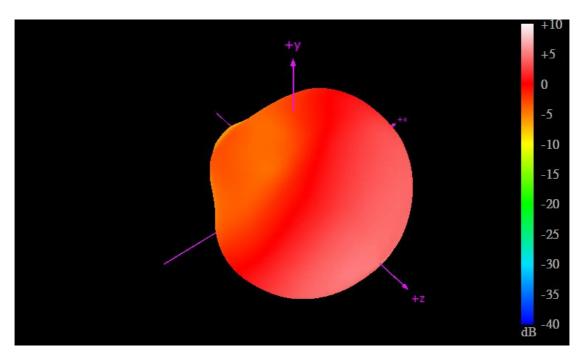
4.1 Test Setup

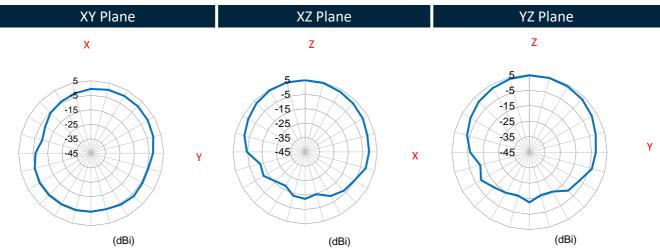


On 1*1m Square Metal Ground Plane



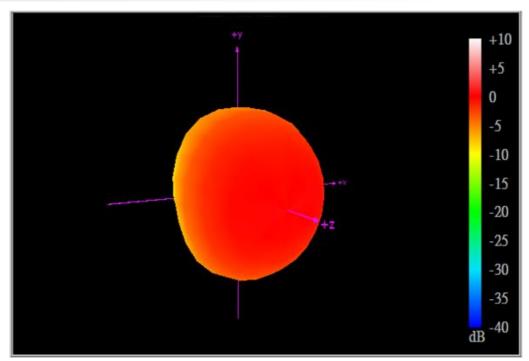
4.2 902MHz 3D and 2D Radiation Pattern

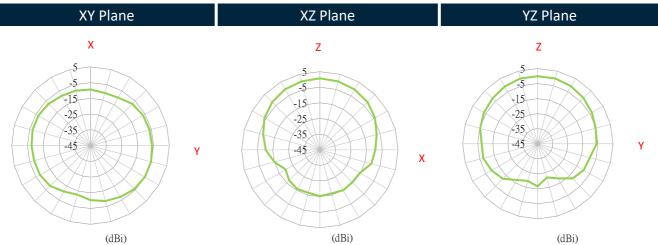






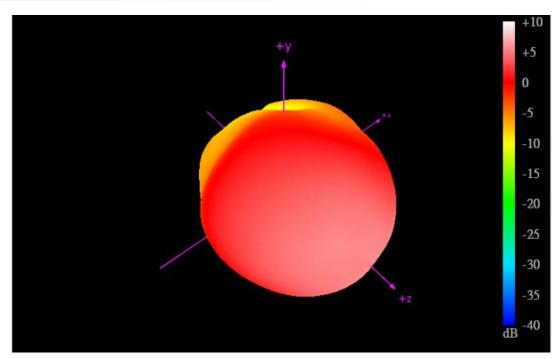
4.3 915MHz 3D and 2D Radiation Pattern

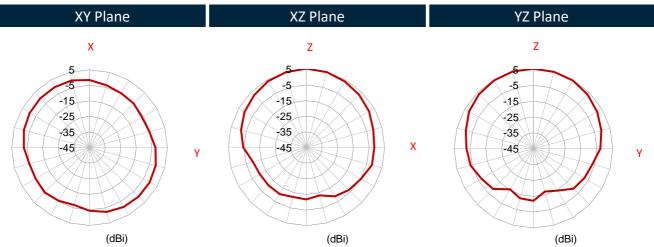






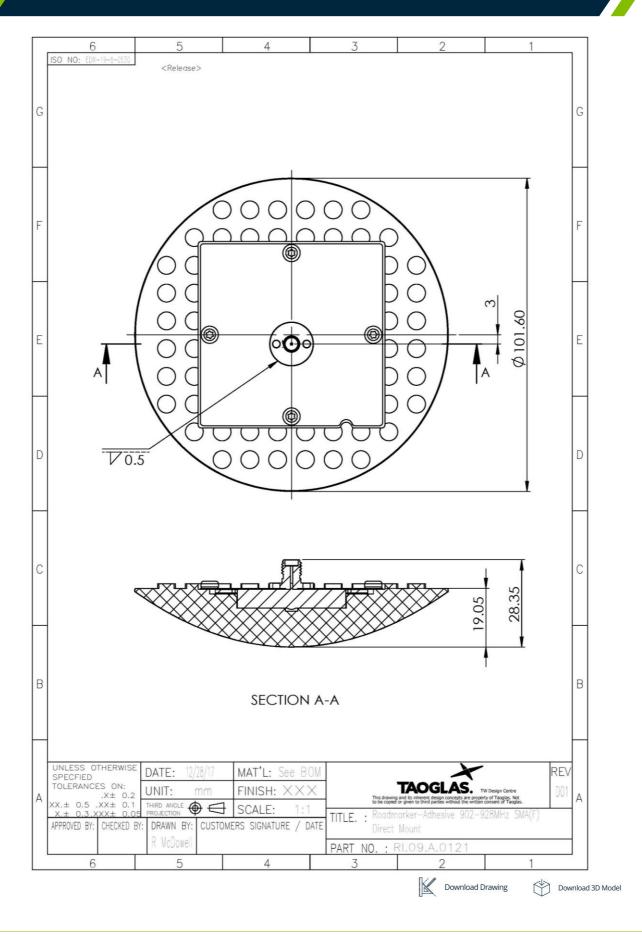
4.4 928MHz 3D and 2D Radiation Pattern







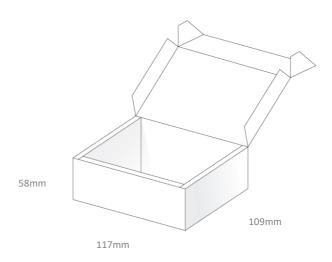
5. Mechanical Drawing (Units: mm)



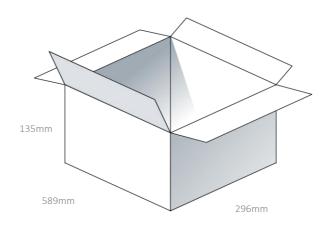


6. Packaging

1pc RI.09.A.0121 per Carton Inner Carton Dimensions: 117*109*58mm Weight: 162g



24pcs RI.09.A.0121 per Carton Dimensions - 135*296*589mm Weight – 4.736Kg





Changelog for the datasheet

SPE-19-8-101 - RI.09.A.0121

Revision: B (Current Version)		
Date:	2020-06-02	
Changes:	Removed Reference to adhesive	
Changes Made by:	Jack Conroy	

Previous Revisions

Revision: A (Original First Release)			
Date: Notes:	2019-08-06		
Notes.			
Author:	Jack Conroy		



www.taoglas.com



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by Taoglas manufacturer:

Other Similar products are found below:

GAN30084EU 930-033-R GW17.07.0250E 1513563-1 EXE902SM APAMPG-117 MAF94383 W3908B0100 W6102B0100 YE572113-30RSMM 108-00014-50 66089-2406 SPDA17RP918 A09-F8NF-M A09-F5NF-M RGFRA1903041A1T W3593B0100 W3921B0100 SIMNA-868 SIMNA-915 SIMNA-433 W1044 W1049B090 A75-001 WTL2449CQ1-FRSMM CPL9C EXB148BN 0600-00060 TRA9020S3PBN-001 Y4503 GD5W-28P-NF MA9-7N GD53-25 GD5W-21P-NF C37 MAF94051 MA9-5N EXD420PL B1322NR QWFTB120 MAF94271 MAF94300 GPSMB301 FG4403 AO-AGSM-OM54 5200232 MIKROE-2349 WCM.01.0111 MIKROE-2393 MIKROE-2352