

Part No: OMB.915.B12F21

Description:

Barracuda 915MHz 10dBi Omnidirectional Outdoor Antenna

Features:

Suitable to use in Robust Outdoor Environment Connector: N Type Female Dimensions: 2240mm x Ø24mm Wall and Pole Mount RoHS and REACH Compliant



1.	Introduction	3
2.	Specifications	4
3.	Antenna Characteristics	5
4.	2D Radiation Patterns	7
5.	Mechanical Drawing	8
6.	Packaging	9
7.	Antenna Installation Guide	10
	Changelog	11

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1. Introduction



The Barracuda OMB.915.B12F21 is a fiberglass omnidirectional outdoor antenna, operating in the 915MHz ISM band and is designed to offer long distance coverage. The antenna is designed for applications such as metering, industrial & environmental monitoring, remote asset monitoring and mesh network applications. The 915MHz band is one of the most widely used license free ISM bands. Typical applications are in SigFox, LoRa and LPWA networks.

With a 10dBi peak gain, the OMB.915.B12F21 omnidirectional antenna radiates uniformly in the azimuth. This collinear design characteristic provides the best performance, giving optimized coverage and therefore longer range in the horizontal plane over 360 degrees, thus minimizing the amount of nodes needed for a mesh network. The UV resistant fiberglass housing enables the OMB antenna to be utilized in all kinds of harsh environments making it more robust and safer than traditional whip antennas. It can be connected directly to the access point or telemetry unit or can be mounted on wall or device surface via the N-type connector and a pole-mount and wall-mount bracket is included. This antenna is an ideal product for developing your own Helium Network on the 915MHz spectrum.

Custom antenna modifications are subject to possible NRE and minimum order quantity. For further information please contact your regional Taoglas customer support team.



Specifications

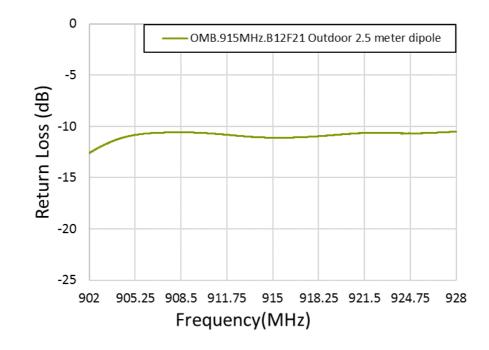
2.

Antenna				
Standard	ISM 915			
Band	902~928MHz			
Antenna Type	Collinear			
Peak Gain	11dBi			
Polarization	Vertical			
Impedance	50 ohms			
Max Input Power	200 watts			
VSWR	<2:1			
Radiation	Omnidirectional			
Vertical Beam-width	12 Deg			
Horizontal Beam-width	360 Deg			
Antenna Design	Dipole Array			
Internal Material	Copper			
Connector	N Type Female			
	Mechanical			
Length	2240mm(Max)			
Bracket Dimension	70*73mm(Max)			
Radome Diameter	24mm			
Antenna Weight (G.W)	994g			
Mounting Accessories (G.W)	70g			
Application	Indoor/Outdoor			
Radome Material	White Fiberglass			
Base Material	Aluminum			
Mount Style	Pole Mount(35mm~50mm)/Wall Mount			
Mounting	Stainless Steel			
Wind Resistance	>150mph(>241km/h)			
	Environmental			
Storage Temperature	-40°C to +80°C			
Operating Temperature	-40°C to +60°C			
Operating Humidity	10%~90% non-condensing			
Storage Humidity	5%~90% non-condensing			



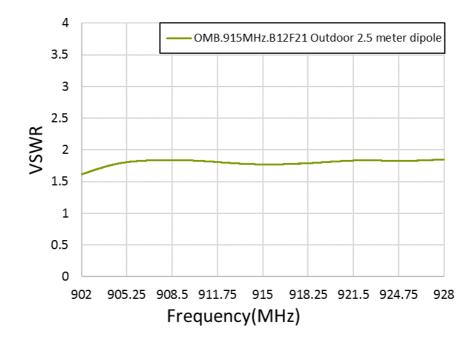
3. Antenna Characteristics

3.1 Return Loss



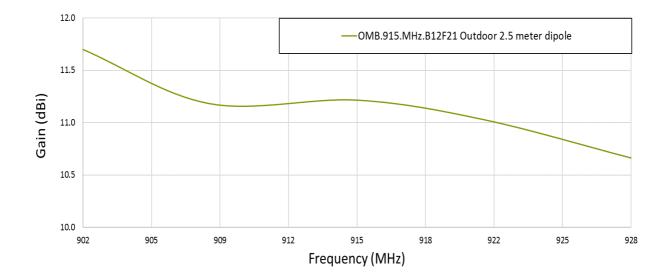
3.2

VSWR





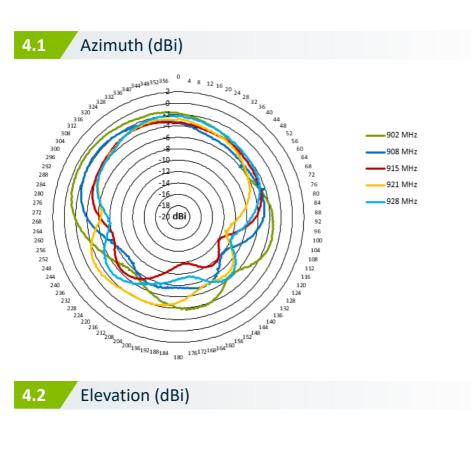
3.3 Average Gain

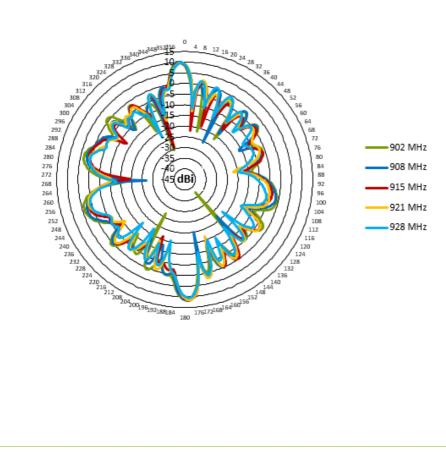




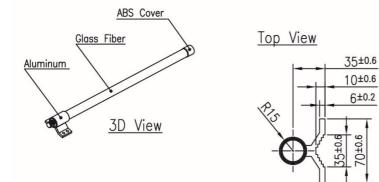
2D Radiation Patterns

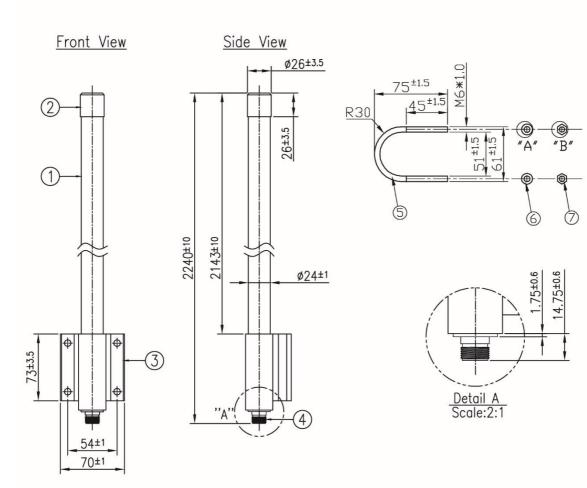
4.









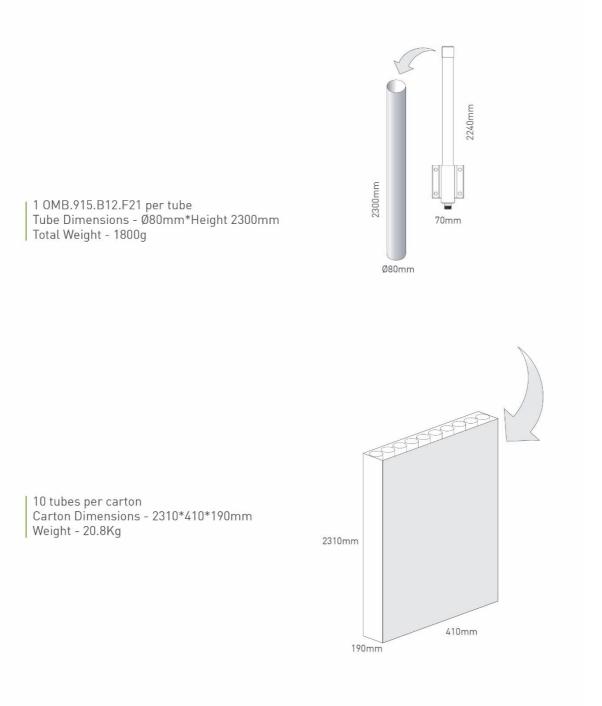


	Name	Material	Finish	QTY
1	OMB.915 Antenna	Glass Fiber	White	1
2	Cover	ABS	Silver	1
3	Bracket	Aluminum	Silver	1
4	N Type(F)	Brass	Ni Plated	1
5	M6 U Bolt	Stainless Steel	Silver	2
6	M6 Washer	Stainless Steel	Silver	4
7	M6 Nut	Stainless Steel	Silver	4

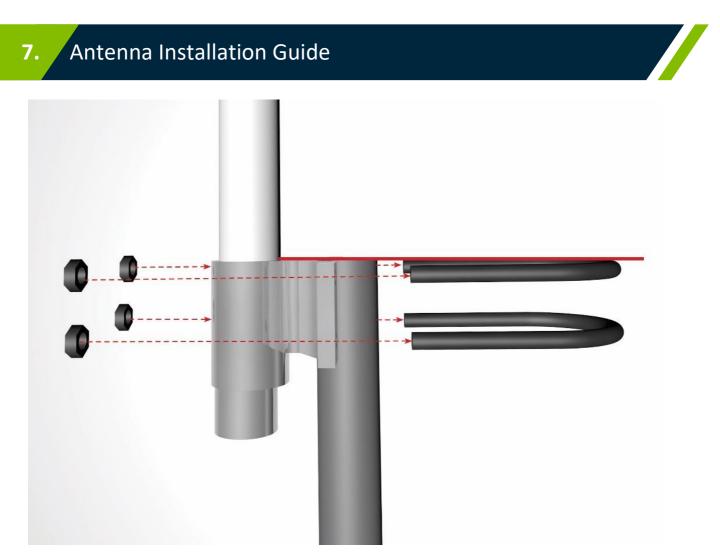
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6. Packaging







*Please note when using this in conjunction with a pole, the bottom of the antenna should be level with the top of the pole as shown by the red line above



Changelog for the datasheet

SPE-17-8-087 - OMB.915.B12F21

Revision: D				
Date:	2022-03-02			
Changes:	Changed template and changed 10dB			
Changes Made by:	Erik Landi			

Previous Revisions

Revision: B				
Date:	2018-02-08			
Changes:	Added Installation Guide			
Changes Made by:	Jack Conroy			

Revision: A				
Date:	2017-11-21			
Changes:	Initial Release			
Changes Made by:	Jack Conroy			





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