TAOGLAS

Datasheet

Wi-Fi Barracuda

Part No:
OMB.242.08F21

Description:

8dBi Omni-Directional Outdoor Antenna

For Wi-Fi/Bluetooth/Zigbee 2.4-2.5dBi

Features:

Omni-Directional Radiation Pattern

Collinear

8dBi Peak Gain

Robust Design for all Weather Operation

Length: 553mm

Diameter: 24mm

Weight: 380g

IP65 Waterproof

N Type Female Connector

Wall/Pole Mount Bracket Included

RoHS & Reach Compliant

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1. Introduction

The Barracuda OMB.242.08F21 has been designed to provide long distance coverage at the 2.4-2.5GHz Wi-Fi band. The OMB.242 is a fiberglass robust outdoor antenna for use where an omnidirectional radiation pattern is required. The base is aluminum - meaning it is resistant to rusting. The fiberglass enclosure is UV coated making this antenna suitable for the harshest outdoor environments. The Barracuda is IP65 rated and can be mounted in areas where installation may be difficult.

The peak gain of 8dBi ensures constant reception and transmission between the device and its network. The omnidirectional antenna collinear dipole design means it uniformly in the azimuth with a high gain, providing coverage over long distances, thus minimizing the number of cells or nodes needed in a network.

Typical Applications Include:

- Public Safety
- Wireless Video Systems
- Agriculture

This antenna is provided with a wall or pole mount bracket, for more information please contact your regional Taoglas customer support team.

2. Specifications

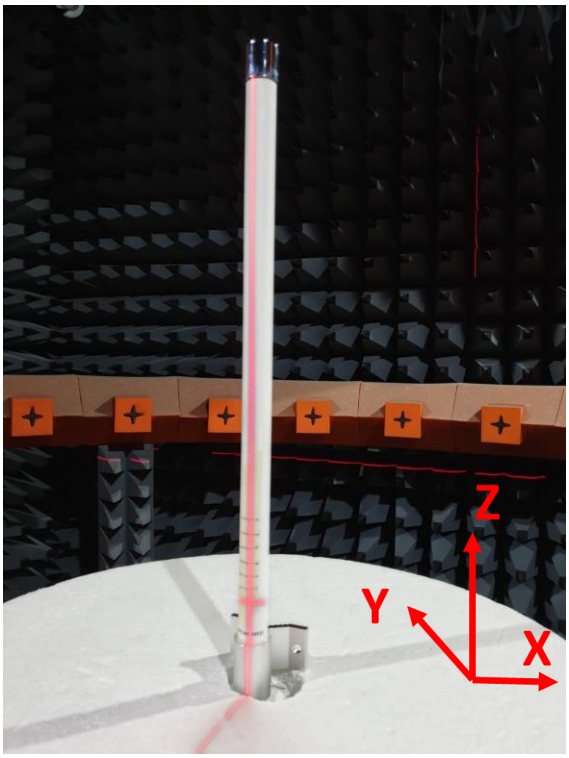
Wi-Fi MIMO	
Frequency (MHz)	**2400~2500**
Efficiency (%)	
Free Space	92.66
Average Gain (dB)	
Free Space	-0.33
Peak Gain (dBi)	
Free Space	8.24
Impedance	50 Ohms
Polarization	Vertical
Radiation Pattern	Omni
Max. input power	50W
VSWR	≤ 1.3
Vertical Beamwidth	57°
Horizontal Beamwidth	360°

Mechanical	
Connector	1 x N Type Female
Connector Location	Bottom
Dimensions	Length 553mm, Diameter 24mm
Radome Diameter	24mm
Weight (& Mounting Bracket max)	380g
Internal Material	Copper
Radome Material	White Fiberglass
Base Material	Aluminium
Waterproof	IP65
Mounting Style	Pole Mount/Wall Mount
Mounting	32-45mm Stainless Steel U-Type Screw

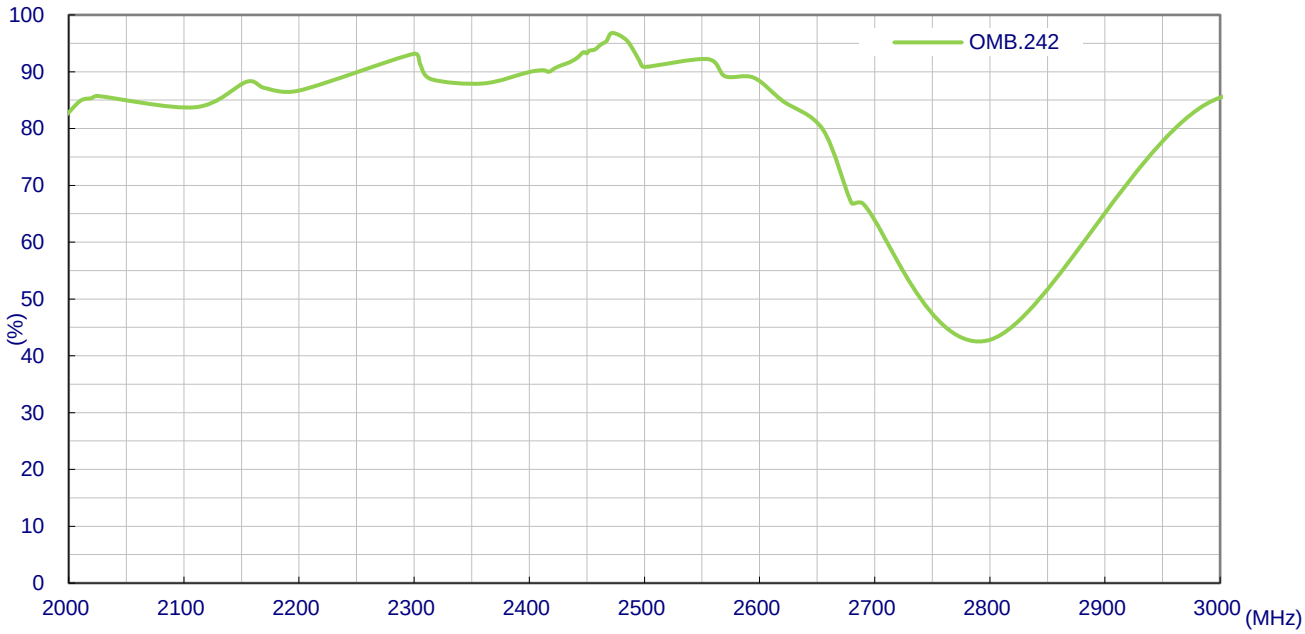
Wind Survival	>150mph(>241km/h)
Operating Temperature	-40°C to +60°C
Storage Temperature	-40°C to +80°C
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing

3. Antenna Characteristics

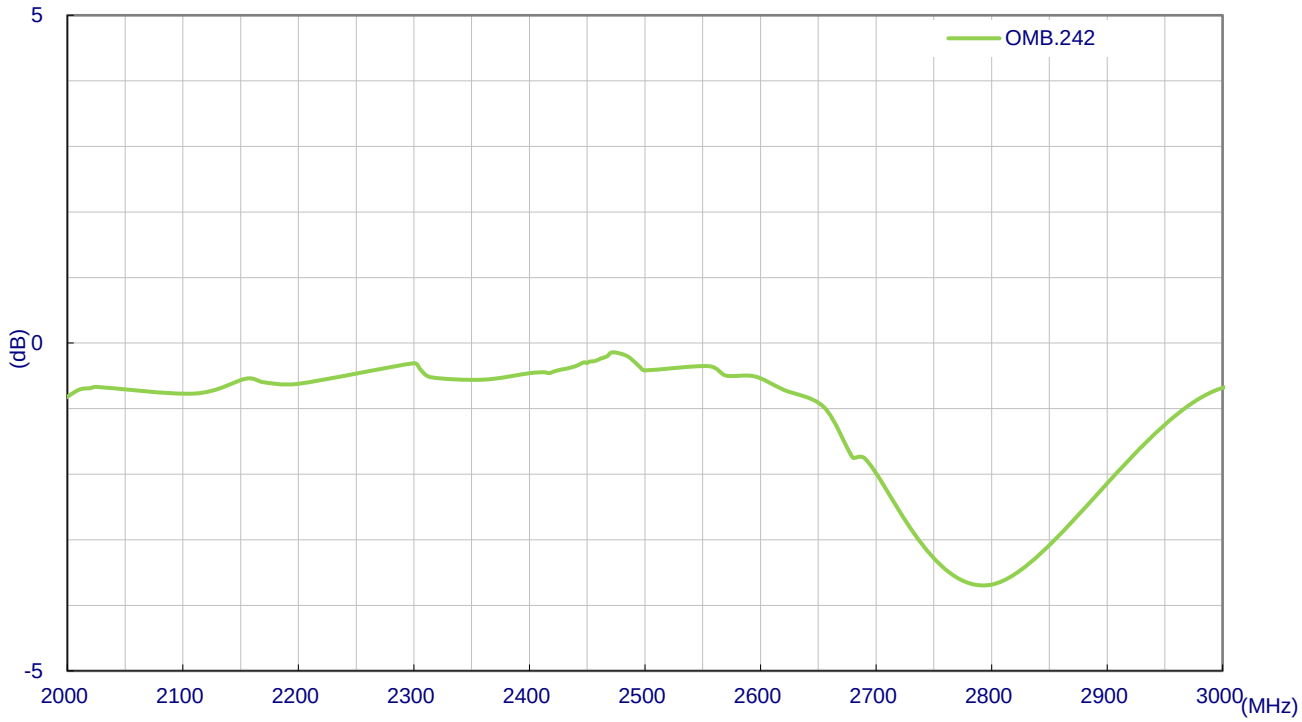
3.1 Test Set Up



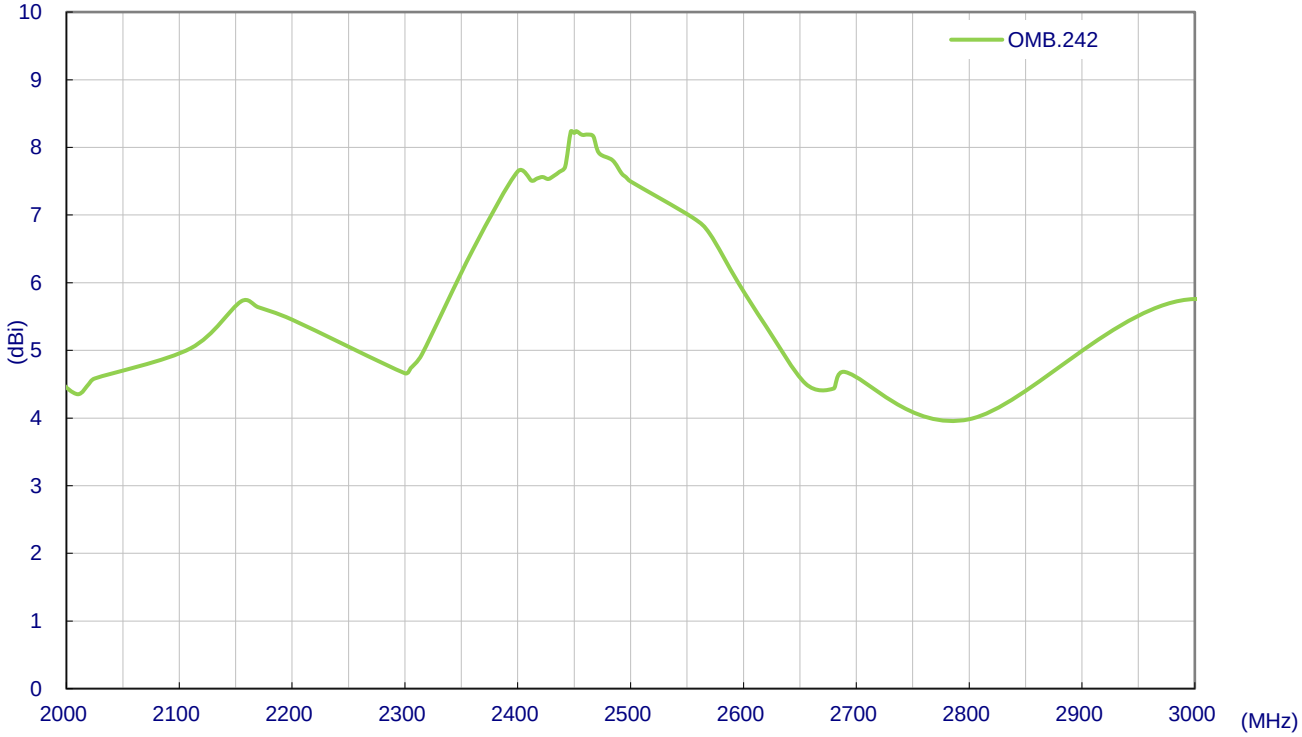
3.2 Efficiency



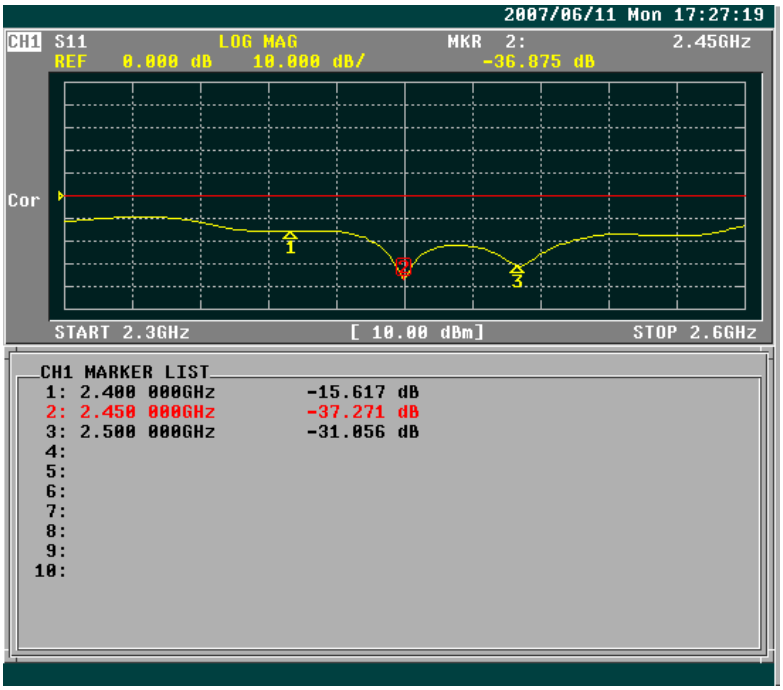
3.3 Average Gain



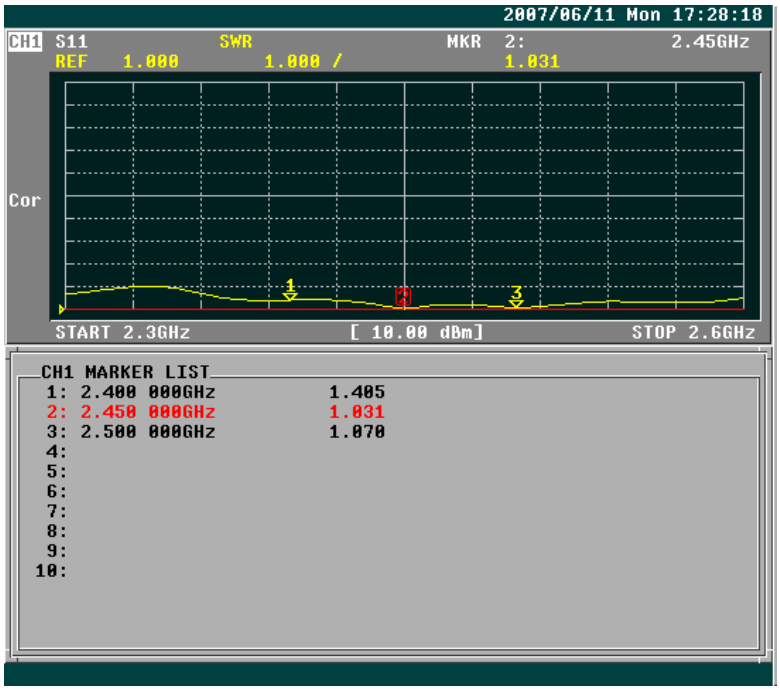
3.4 Peak Gain



3.5 Return Loss

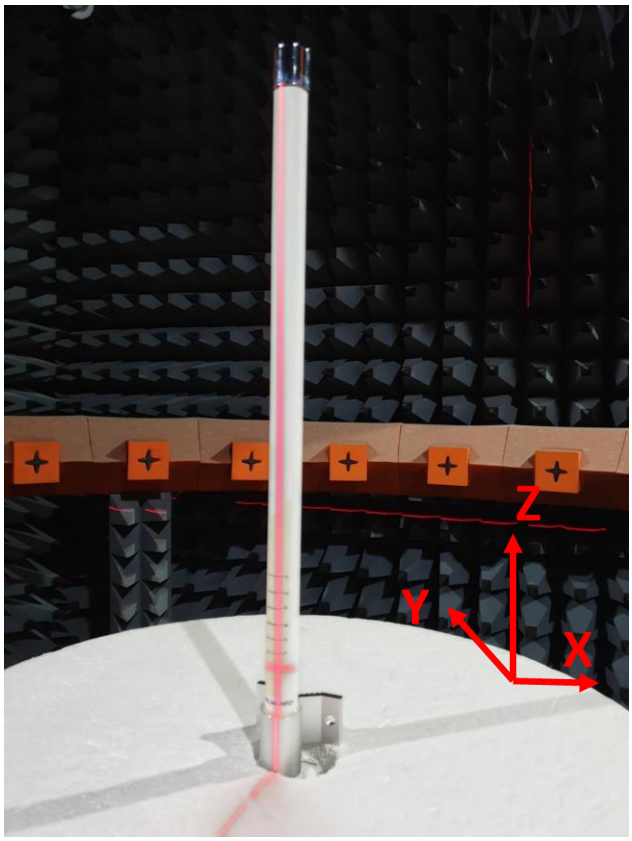


3.6 VSWR



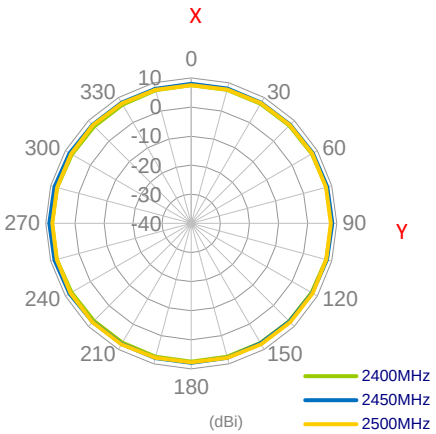
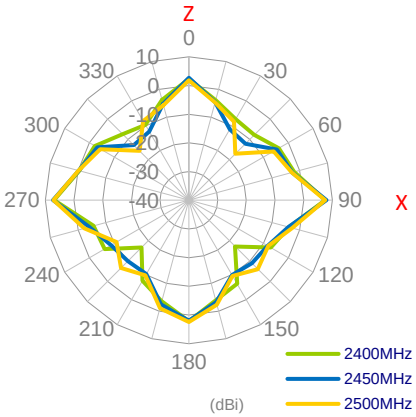
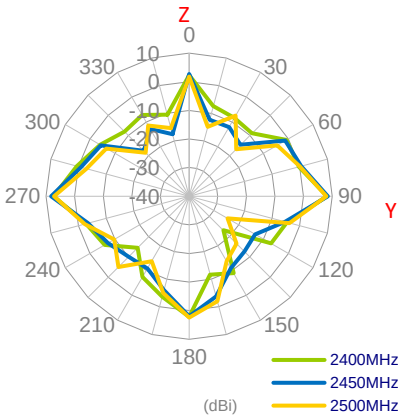
4. Radiation Patterns

4.1 Test Setup

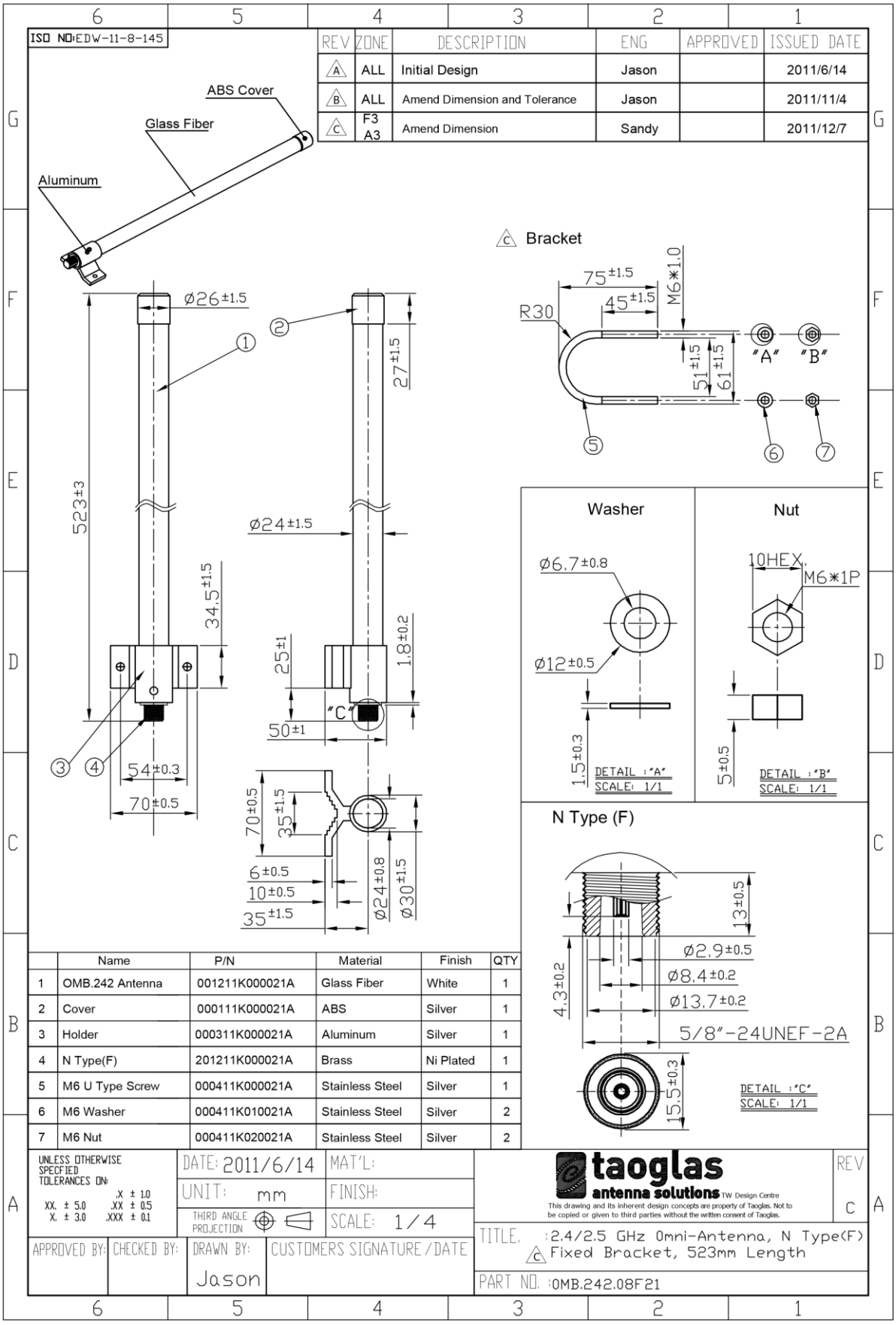


Free space

4.2 2D Radiation Patterns

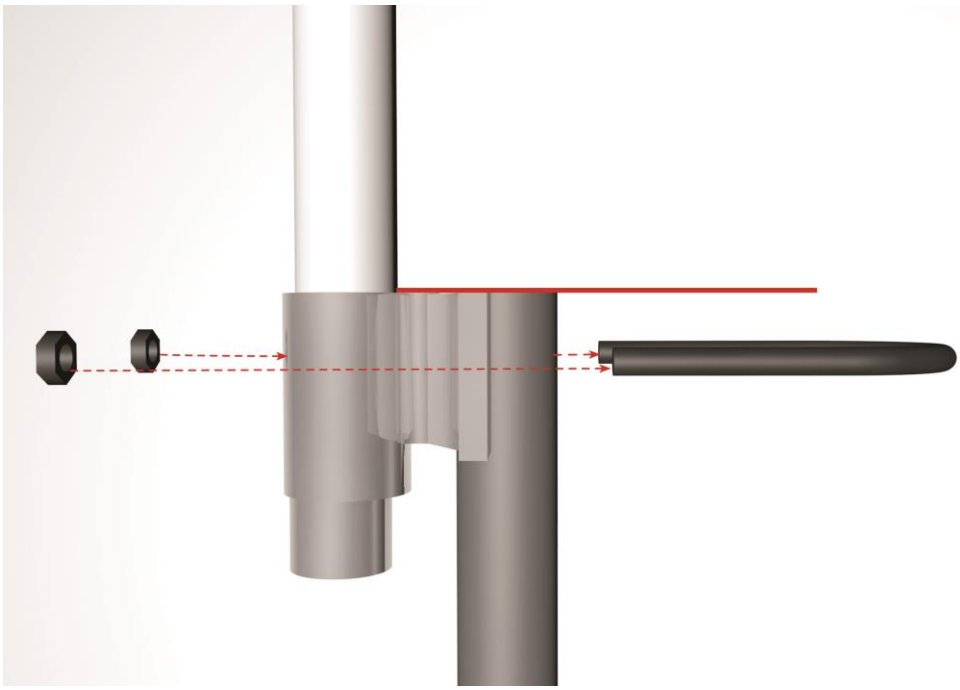
XY Plane	XZ Plane	YZ Plane
		

5. Mechanical Drawing (Units: mm)



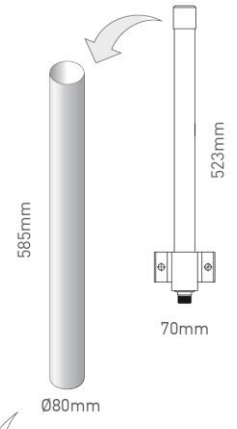
	Name	P/N	Material	Finish	QTY
1	OMB.242 Antenna	001211K000021A	Glass Fiber	White	1
2	Cover	000111K000021A	ABS	Silver	1
3	Holder	000311K000021A	Aluminum	Silver	1
4	N Type(F)	201211K000021A	Brass	Ni Plated	1
5	M6 U Type Screw	000411K000021A	Stainless Steel	Silver	1
6	M6 Washer	000411K010021A	Stainless Steel	Silver	2
7	M6 Nut	000411K020021A	Stainless Steel	Silver	2

6. Installation Instructions

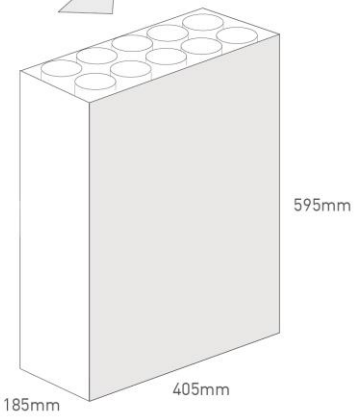


7. Packaging

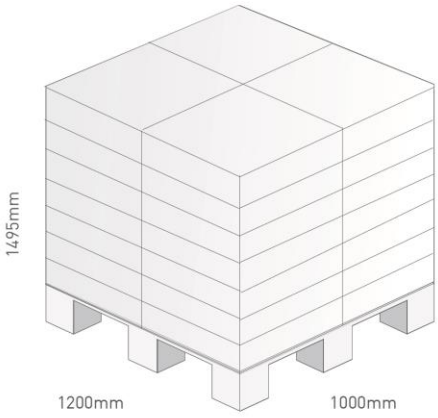
1 OMB.242.08F21 per tube
Tube Dimensions - Ø80mm*Height 585mm
Total Weight - 536.5g



10 tubes per carton
10 pcs OMB.242.08F21 per carton
Carton Dimensions - 405*595*185mm
Weight - 6.22kg



Pallet Dimensions 1200mm*1000mm*1495mm
28 Cartons per Pallet
4 Cartons per layer
7 Layers



Changelog for the datasheet

SPE-12-8-008 - OMB.242.08F21

Revision: F (Current Version)	
Date:	2019-10-31
Changes:	Installation Guide Amended
Changes Made by:	Jack Conroy

Previous Revisions

Revision: E	
Date:	2018-03-27
Changes:	Installation Guide Amended
Changes Made by:	Jack Conroy

Revision: D	
Date:	2018-03-16
Changes:	Installation Guide Detail Added
Changes Made by:	Jack Conroy

Revision: C	
Date:	2017-03-08
Changes:	Removed Section
Changes Made by:	Aine Doyle

Revision: B	
Date:	2012-11-20
Changes:	Packaging Details Updated
Changes Made by:	Aine Doyle

Revision: A (Original First Release)	
Date:	2011-01-20
Notes:	
Author:	Aine Doyle

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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