

SPECIFICATION

868MHz ISM Band Dipole Antenna

Part No. : **OMB.868.B05F21**

Product Name : 5dBi 868MHz ISM Band Indoor/Outdoor

Omni-Directional Antenna

Feature : Suitable to use in robust outdoor environment

Dimensions: Height 1093.5mm

RoHS compliant





1. Introduction

The 868MHz Barracuda ISM Outdoor antenna is designed to a have a long distance coverage. Omni-directional high gain across all bands ensures constant reception and transmission. The UV resistant coating with fiberglass housing makes this antenna suitable to be mounted in robust outdoor environment, pole-mounting and wall-mounting bracket is included.

The antenna finds its usage in metering, industrial monitoring and security applications.



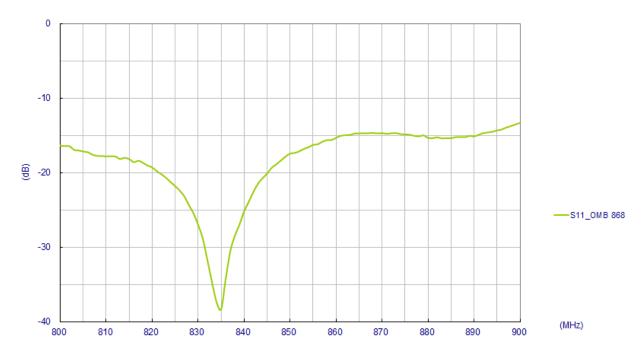
2. Specification

ELECTRICAL						
Standard	ISM 868					
Band	860~870MHz					
Antenna Type	Collinear					
Gain(max)	5dBi					
Polarization	Vertical					
Impedance	50 ohms					
Max Input Power	50 watts					
VSWR	<1.5:1					
Radiation	Omni-Directional					
Vertical Beam-width	38 Deg					
Horizontal Beam-width	360 Deg					
Antenna Design	Dipole Array					
Internal Material	Copper					
Connector	N Type Female					
	MECHANICAL					
Length	1094mm(Max)					
Base Diameter	70*55mm(Max)					
	680g					
Antenna Weight(G.W)	680g					
Antenna Weight(G.W) Mounting Accessories(G.W)	680g 70g					
Mounting						
Mounting Accessories(G.W)	70g					
Mounting Accessories(G.W) Application	70g Indoor/Outdoor					
Mounting Accessories(G.W) Application Radome Material	70g Indoor/Outdoor White Fiberglass					
Mounting Accessories(G.W) Application Radome Material Base Material	70g Indoor/Outdoor White Fiberglass Aluminum					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style Mounting	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount Stainless Steel					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style Mounting Wind Resistance	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount Stainless Steel >150mph(>241km/h)					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style Mounting Wind Resistance	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount Stainless Steel >150mph(>241km/h) Fiberglass ENVIRONMENTAL -20°C to +80°C					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style Mounting Wind Resistance Housing	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount Stainless Steel >150mph(>241km/h) Fiberglass ENVIRONMENTAL					
Mounting Accessories(G.W) Application Radome Material Base Material Mount Style Mounting Wind Resistance Housing Storage Temperature	70g Indoor/Outdoor White Fiberglass Aluminum Pole Mount/Wall Mount Stainless Steel >150mph(>241km/h) Fiberglass ENVIRONMENTAL -20°C to +80°C					

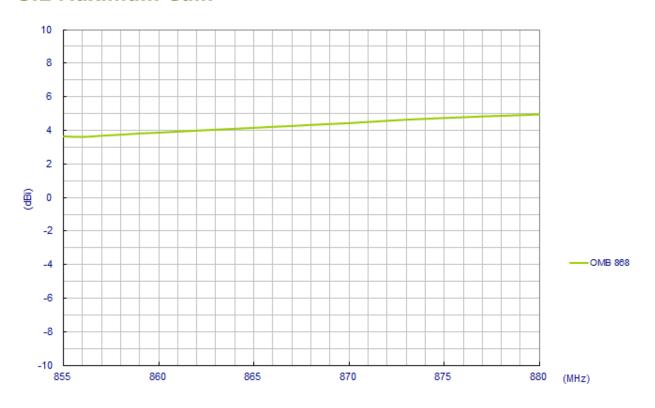


3. Antenna Characteristics

3.1 Return Loss

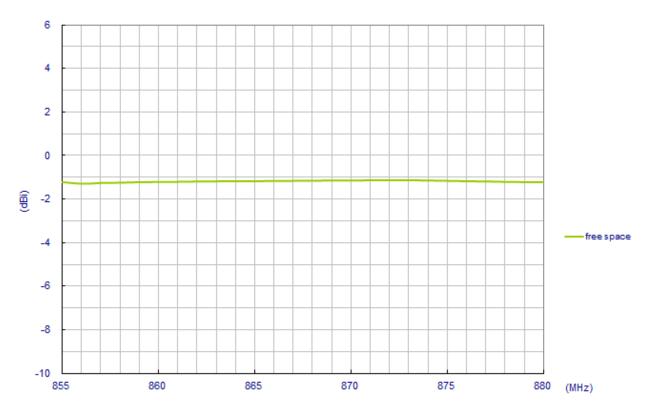


3.2 Maximum Gain

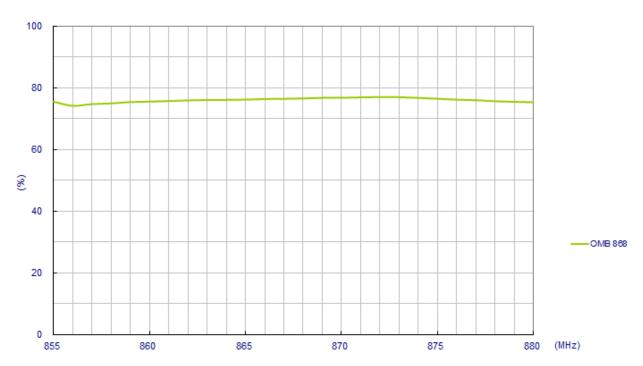




3.3 Average Gain

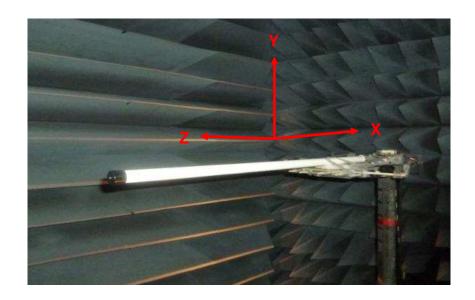


3.4 Efficiency



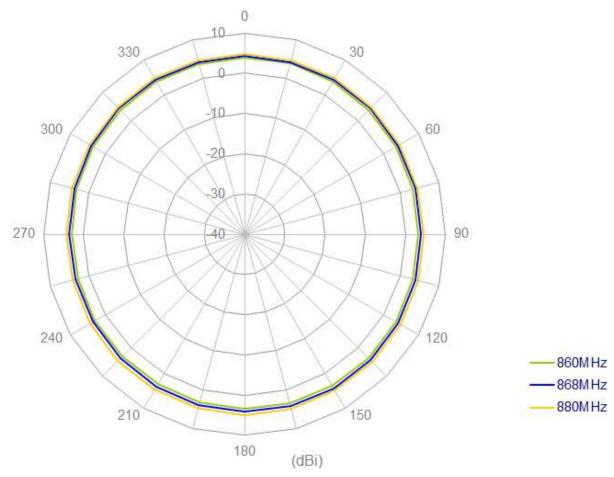


4.3D Radiation Property



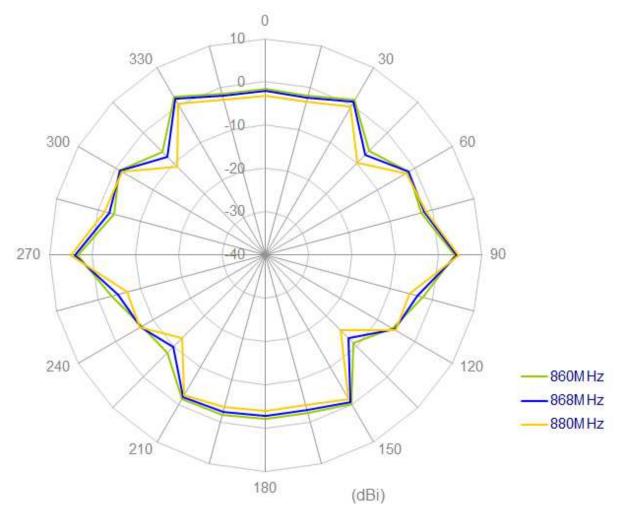


XY plane



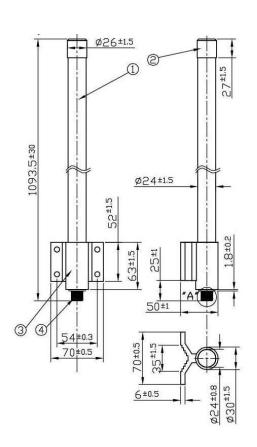


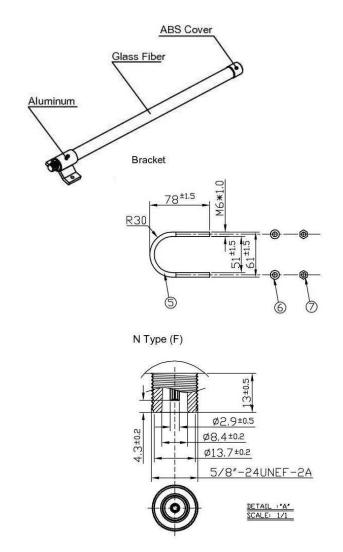
XZ plane





5. Drawing





	Name	P/N	Material	Finish	QTY
1	OMB.868 Antenna	001212B010021A	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	2
6	M6 Washer	000411K010021A	Stainless Steel	Silver	4
7	M6 Nut	000411K020021A	Stainless Steel	Silver	4