

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 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.

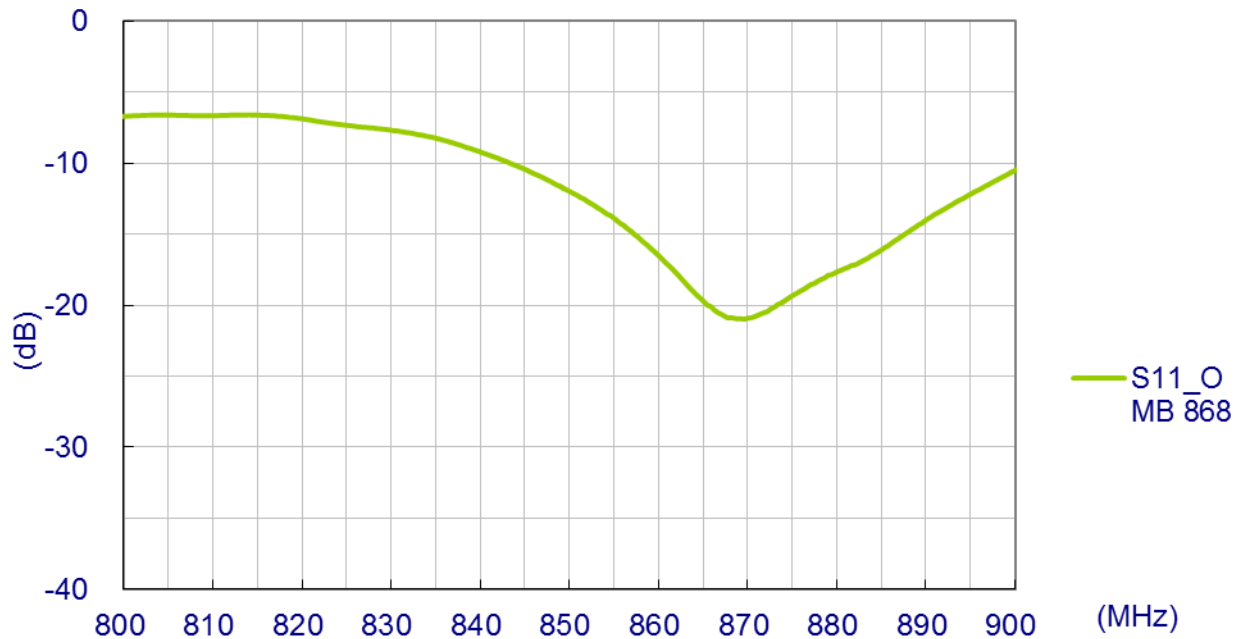
This antenna is suitable to use as part of narrow channel M2M Sigfox Network, for simple M2M management in cities. The main applications would be Smart Cities, Utilities, Public Transport.

Specification

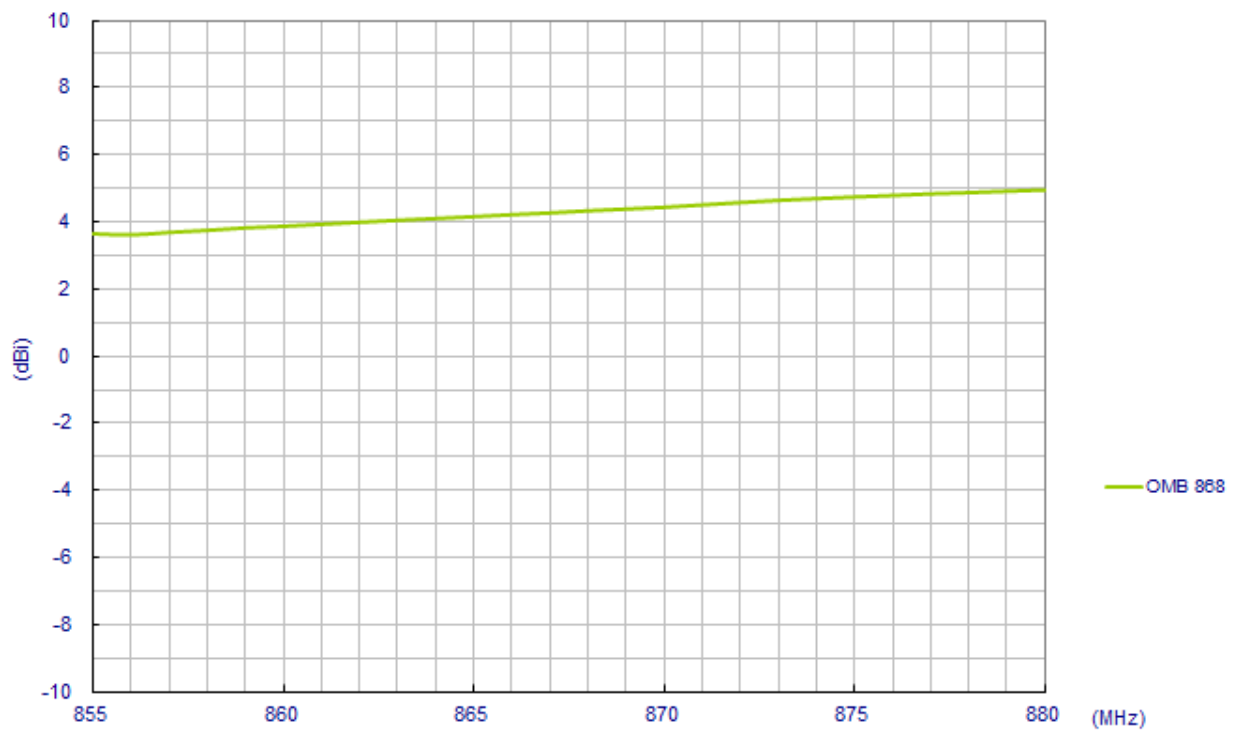
| ELECTRICAL | |
|---------------------------|------------------------|
| Standard | ISM 868 |
| Band | 860~870MHz |
| Antenna Type | Collinear |
| Gain(max) | 5dBi |
| Polarization | Vertical |
| Impedance | 50 ohms |
| Max Input Power | 50 watts |
| VSWR | <1.5:1 |
| Radiation | Omni-Directional |
| 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) |
| Antenna Weight(G.W) | 680g |
| Mounting Accessories(G.W) | 70g |
| Application | Indoor/Outdoor |
| Radome Material | White Fiberglass |
| Base Material | Aluminum |
| Mount Style | Pole Mount/Wall Mount |
| Mounting | Stainless Steel |
| Wind Resistance | >150mph(>241km/h) |
| Housing | Fiberglass |
| ENVIRONMENTAL | |
| Storage Temperature | -20°C to +80°C |
| Operating Temperature | -20°C to +60°C |
| Operating Humidity | 10%~80% non-condensing |
| Storage Humidity | 5%~80% non-condensing |

2. Antenna Characteristics

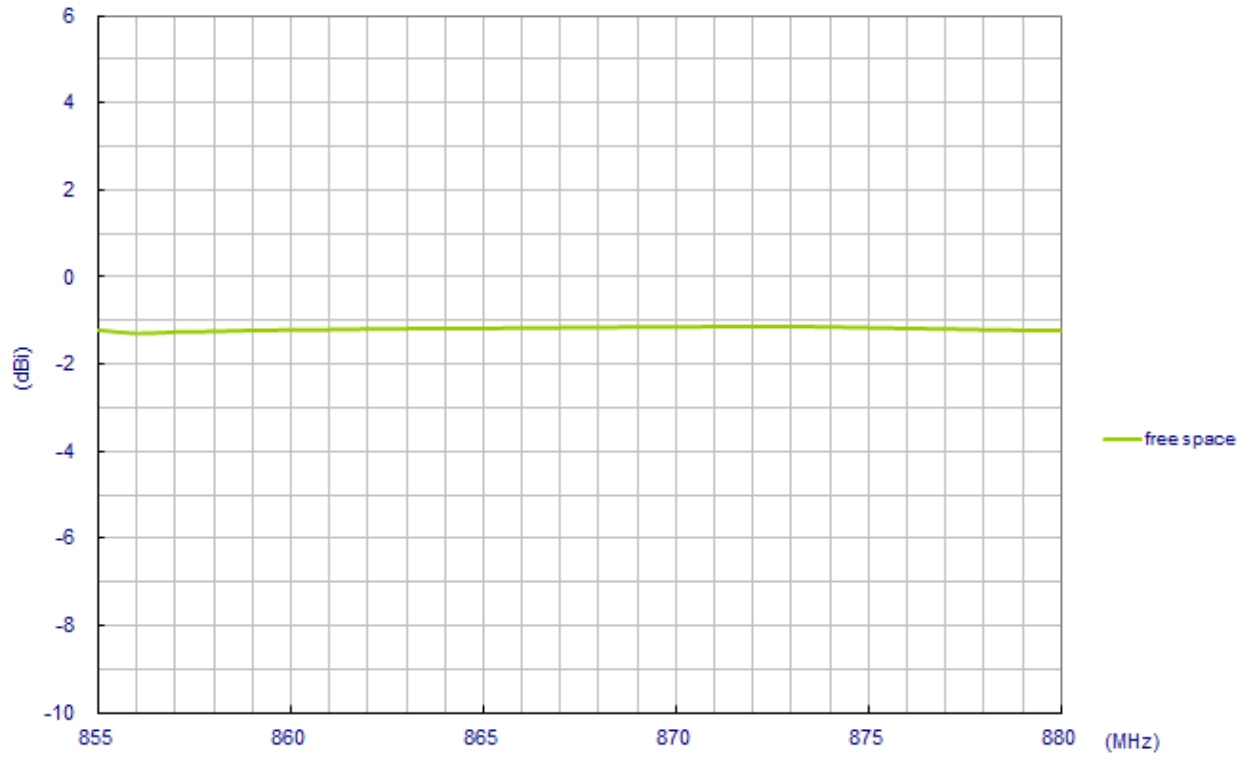
3.1 Return Loss



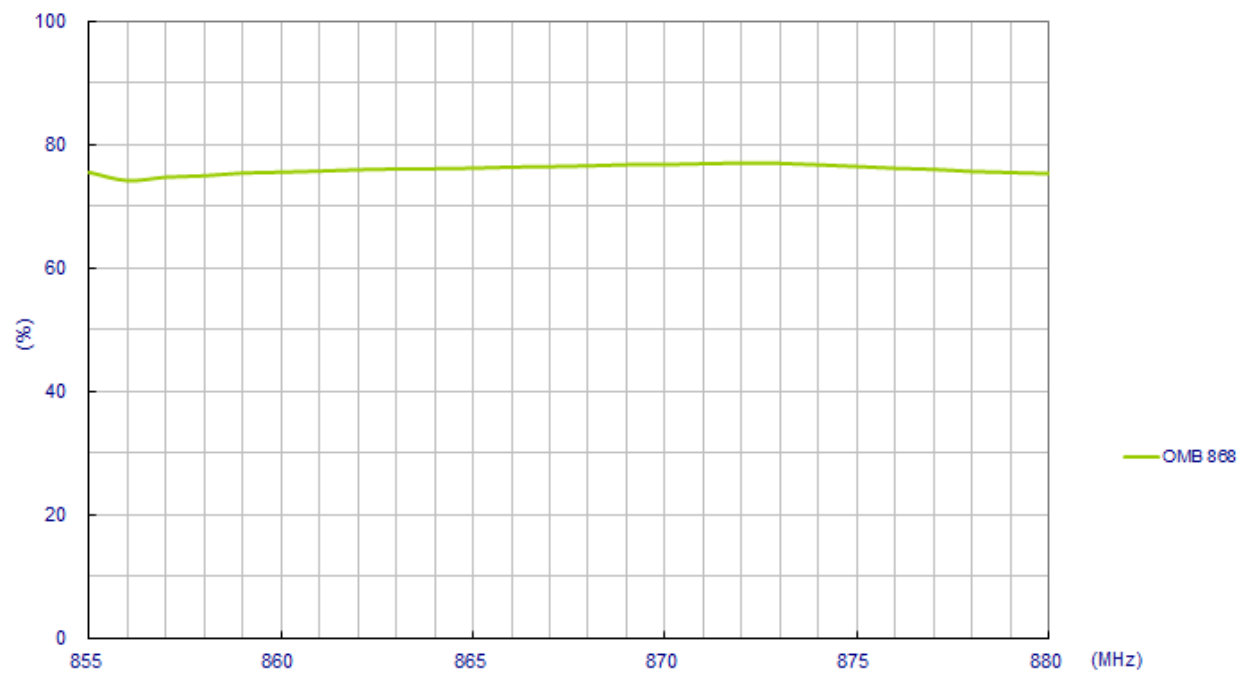
3.2 Maximum Gain



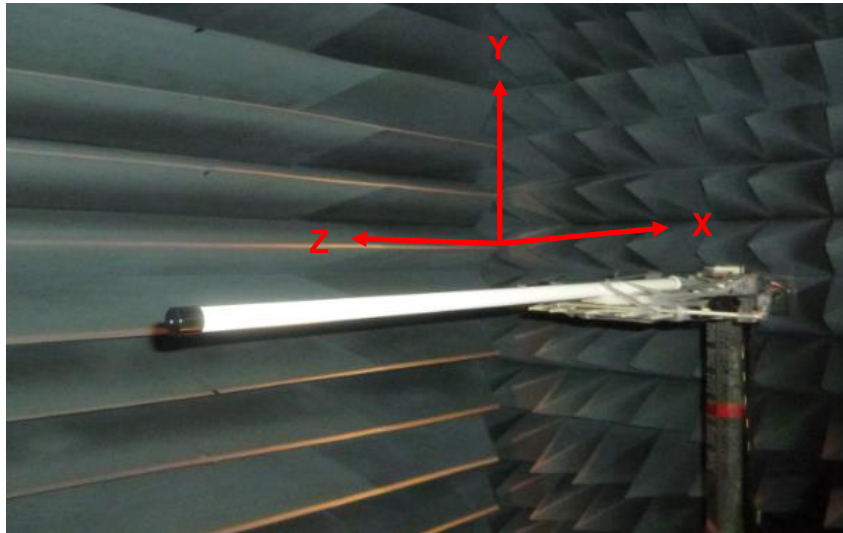
3.3 Average Gain



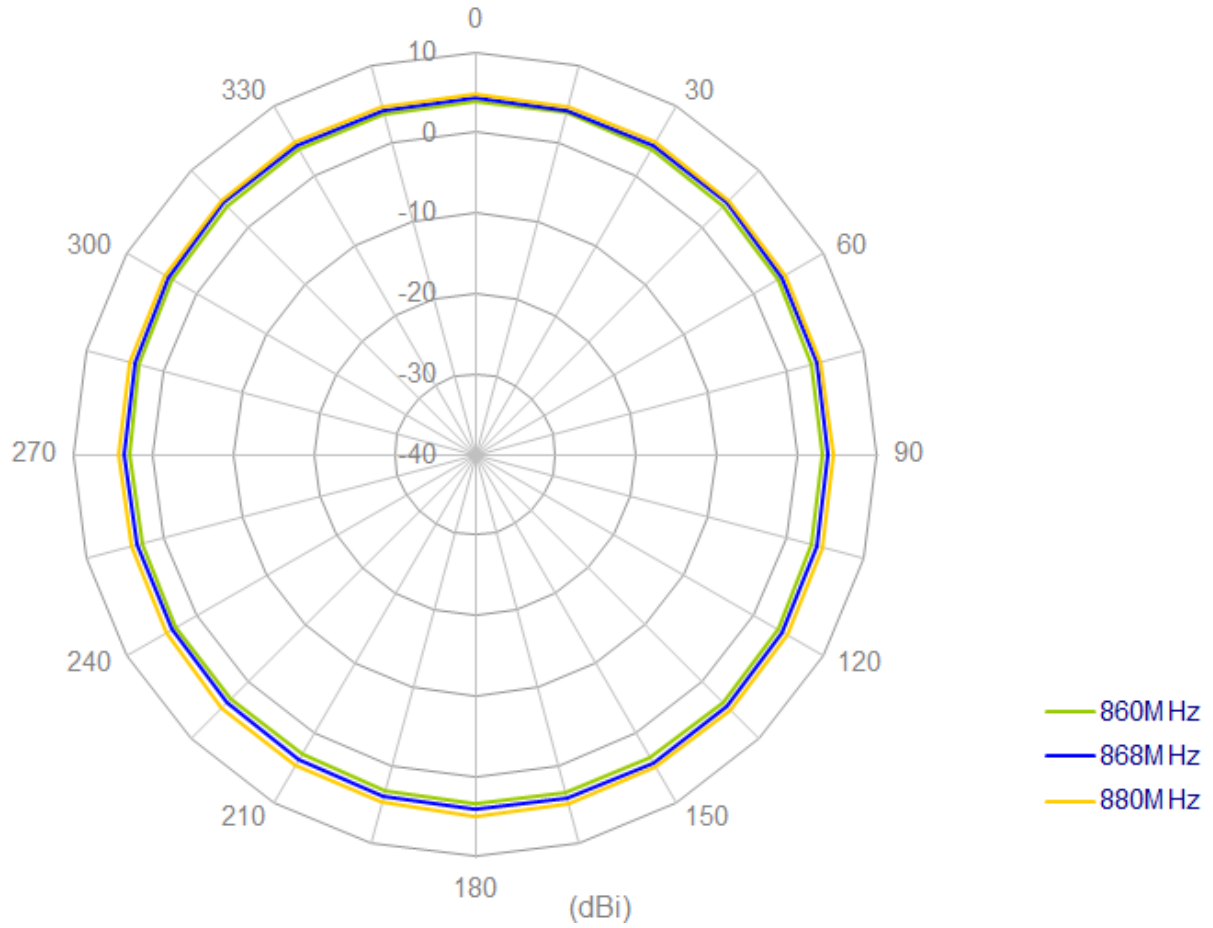
3.4 Efficiency



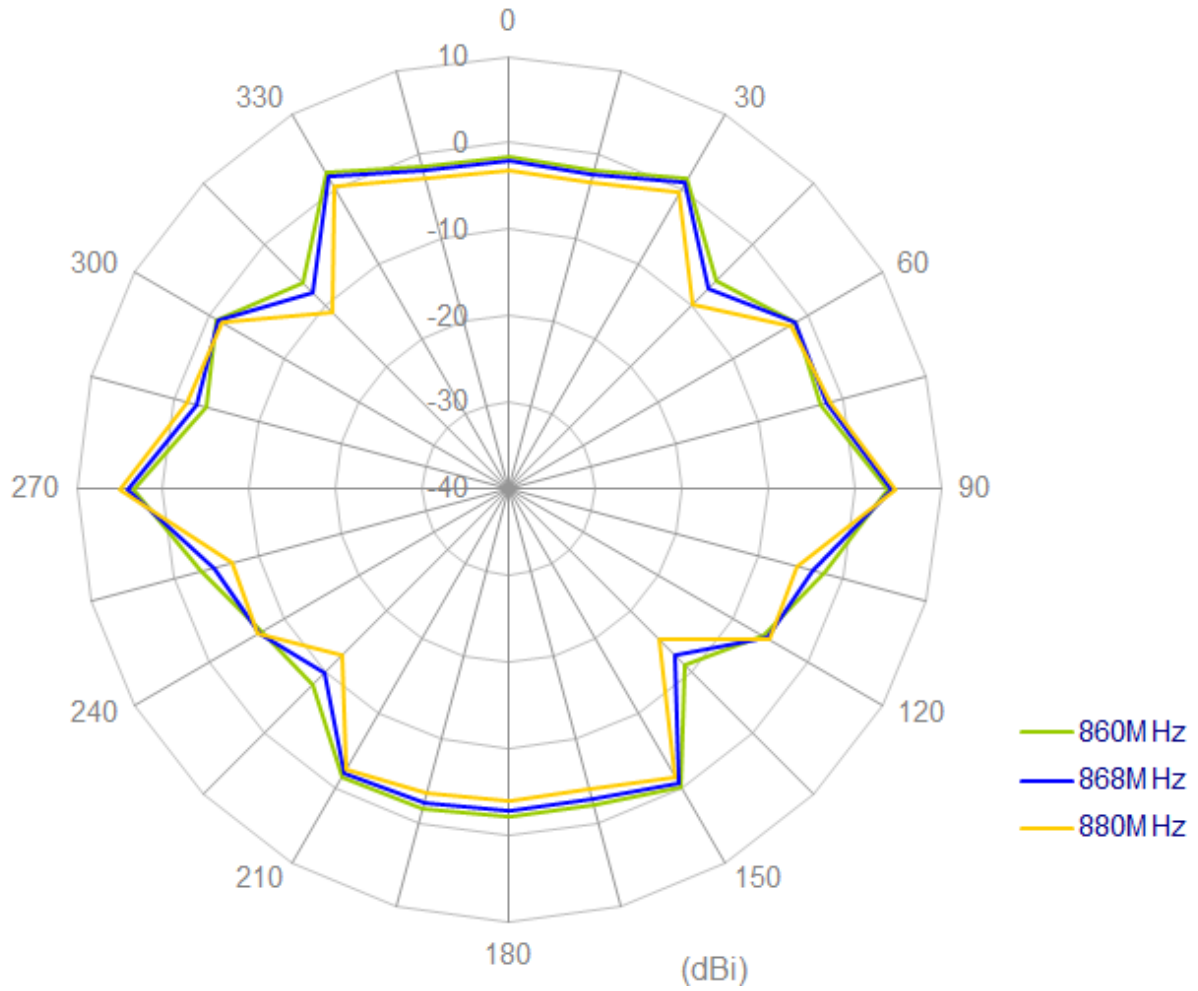
3.3D Radiation Property



XY plane



XZ plane



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