

SPECIFICATION

Penta-band Cellular Omni-Directional Antenna

Part No.	:	OMB.8912. 03F21
Product Name	:	3 dBi Penta-band Cellular Indoor/Outdoor
		Omni-Directional Antenna
Feature	:	GSM850/ GSM900/ DCS/ PCS/ WCDMA I
		850/ 900/ 1800/ 1900/ 2100 MHz Suitable to use in robust outdoor environment
		RoHS compliant





1.Introduction

The Penta-band cellular Barracuda Outdoor antenna is designed to a have 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 boosting cellular coverage in remote areas or difficult environments indoors and outdoors.



2. Specification

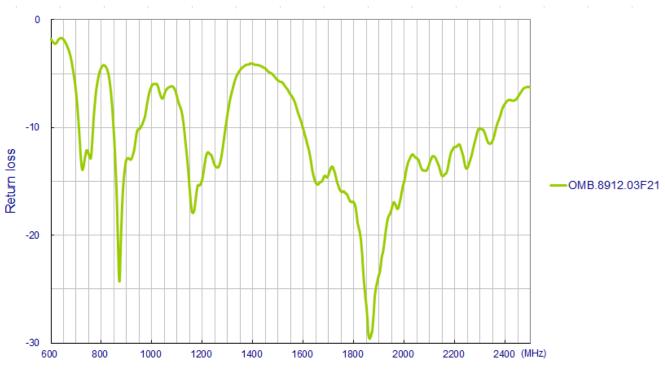
ELECTRICAL									
Standard	GSM	GSM	DCS	PCS	WCDMA I				
Band	850	900	1800	1900	2100				
Frequency (MHz)	824~894	880~960	1710~188 0	1850~199 0	1920~217 0				
Peak Gain (dBi)	1.55	2.13	4.47	4.49	4.89				
Average Gain (dBi)	1.18	1.78	3.87	4.24	4.08				
Efficiency (%)	63.4	75.7	81.2	88.8	87.3				
Antenna Type	Collinear								
Polarization	Vertical								
Impedance	50 ohms								
Max Input Power	50 watts								
VSWR	<2.0:1								
Radiation	Omni-Directional								
Vertical Bandwidth	65 Deg								
Horizontal Bandwidth	360 Deg								
Antenna Design	Dipole Array								
Internal Material	Copper								
Connector	N Type Female								
	N	1ECHANICAL							
Length			527 mm						
Base Diameter		7	0*55mm(Max	<)					
Antenna Weight(G.W)	350g								
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)								



ENVIRONMENTAL					
Storage Temperature	-40°C to +80°C				
Operating Temperature	-40°C to +60°C				
Operating Humidity	10%~80% non-condensing				
Storage Humidity	5%~80% non-condensing				

3.Antenna Characteristics

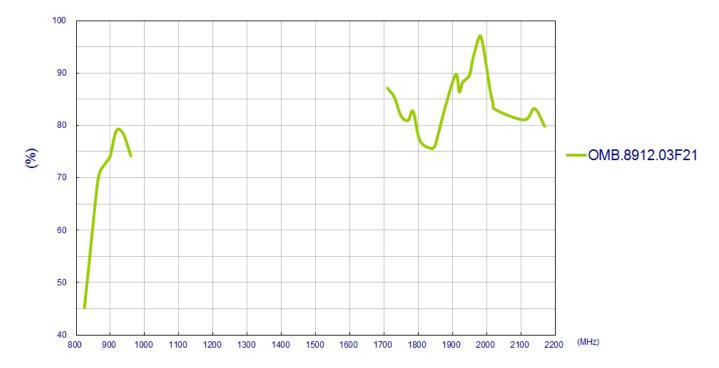






3.2 Maximum Gain

3.3 Efficiency

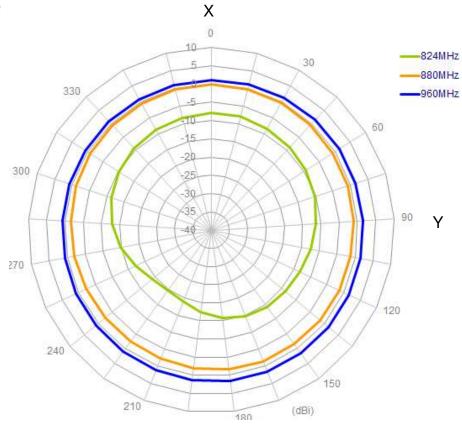




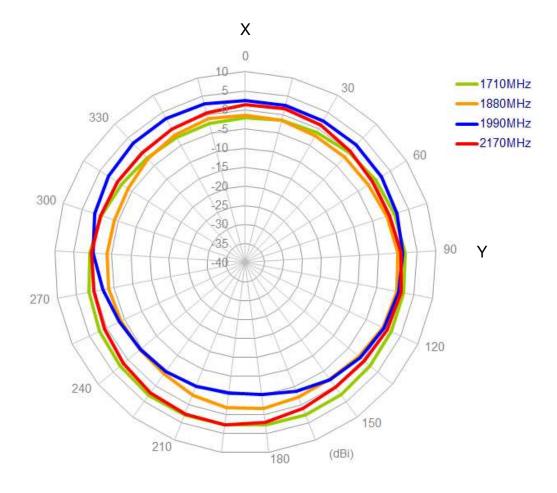
4.3D Radiation Property



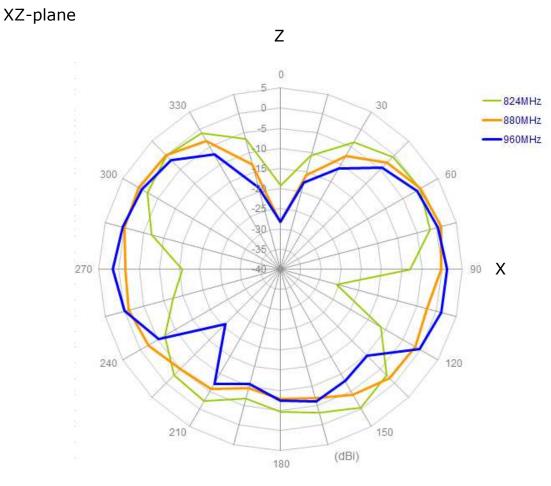
XY-plane

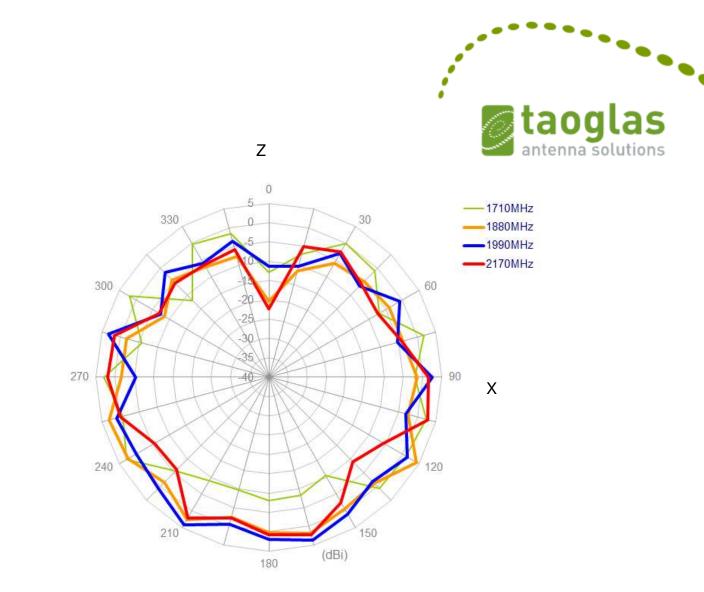




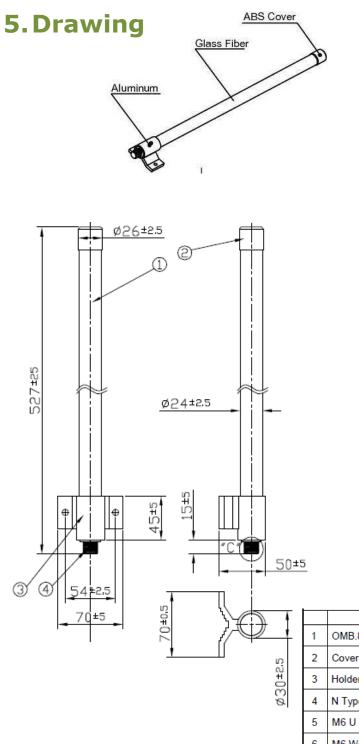




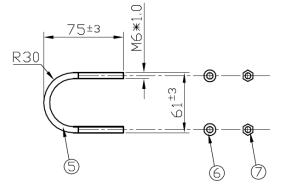




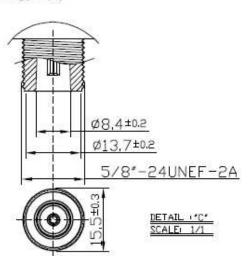




Bracket



N Type (F)

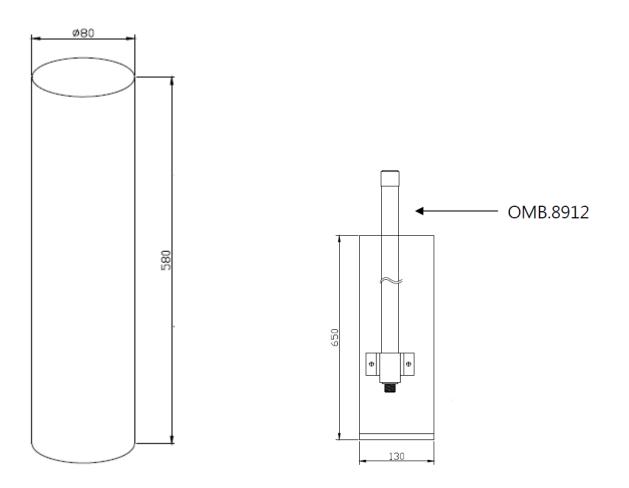


	Name	P/N	Material	Finish	QTY
1	OMB.8912 Antenna	001212C000021A	Glass Fiber	White	1
2	Cover	000111K000021A	ABS	Silver	1
3	Holder	000311K000021A	Aluminum	Silver	1
4	N Type(F)	201211K000021A	Brass	Ni Plated	1
5	M6 U Type Screw	000411K000021A	Stainless Steel	Silver	1
6	M6 Washer	000411K010021A	Stainless Steel	Silver	1
7	M6 Nut	000411K020021A	Stainless Steel	Silver	1



6. Packaging

Antennas are packed in carton tubes inside PE bags. Mounting components are packed in the separate PE bag inside the tube



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