



FXP14.09.0100A

Specification

Part No.	FXP14.09.0100A
Product Name	FXP14 Hexa-Band Cellular Antenna 850/900/1700/1800/1900/2100MHz
Feature	MMCX(M) RA Connector 100mm Cable 70*20*0.1 mm RoHS Compliant

1. Introduction

The Taoglas FXP14 Hexa Band Cellular Antenna covers all world-wide bands (850 / 900 / 1700 / 1800 / 1900 / 2100 MHz). These cellular bands are used for different technologies in different countries such as

GSM / CDMA / DCS / PCS / WCDMA / UMTS/ HSPA / GPRS / EDGE / 3G. The antenna has been designed in a flexible material with a rectangular form-factor and cable connection for

an easy installation. The antenna works on different plastic materials and thickness. We have selected a piece of ABS with 2 mm of thickness as a baseline for testing.

2. Specifications

Parameter	Hexa Band Cellular Antenna					
Cellular Band (MHz)	850	900	1700	1800	1900	2100
Return Loss (dB)	-7	-12	-8	-9	-9	-8
Efficiency (%)	52	55	60	60	62	65
Gain (dBi)	2	1.5	3	2.5	2	2.5
Impedance	50 Ohms					
VSWR	≤2.5:1					
Polarization	Linear					
Power Handled	5W					
Operation Temperature	-40 °C ~ +85 °C					
Storage Temperature	-40 °C ~ +85 °C					
Dimensions	70 X 20 X 0.1 mm					
Weight	1.5 g					
Connector	MMCX(M) RA					
Cable Standard	Mini-Coax 1.13 mm					
Cable Length and color	105mm, Black					
RoHS Compliant	Yes					
Adhesive	3M 467					

3. Test Set Up

A Satimo SG24 3D Scan System with Anechoic Chamber

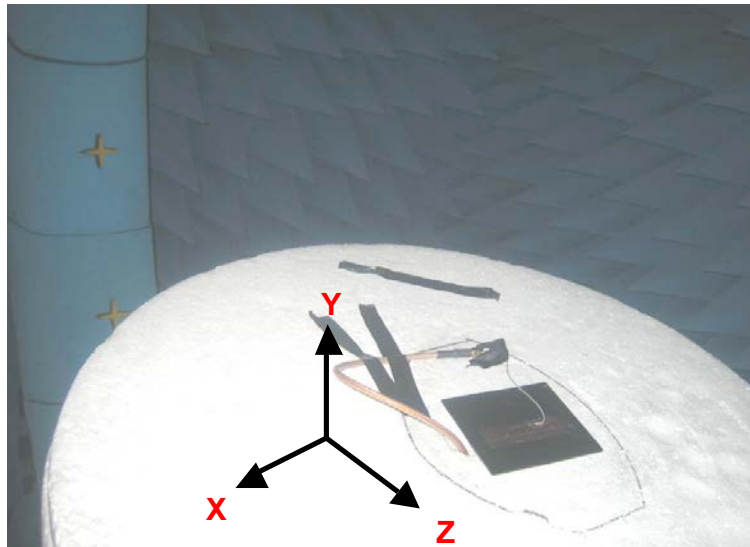


Figure 1. Satimo System.

Agilent 5071C Vector Network Analyzer

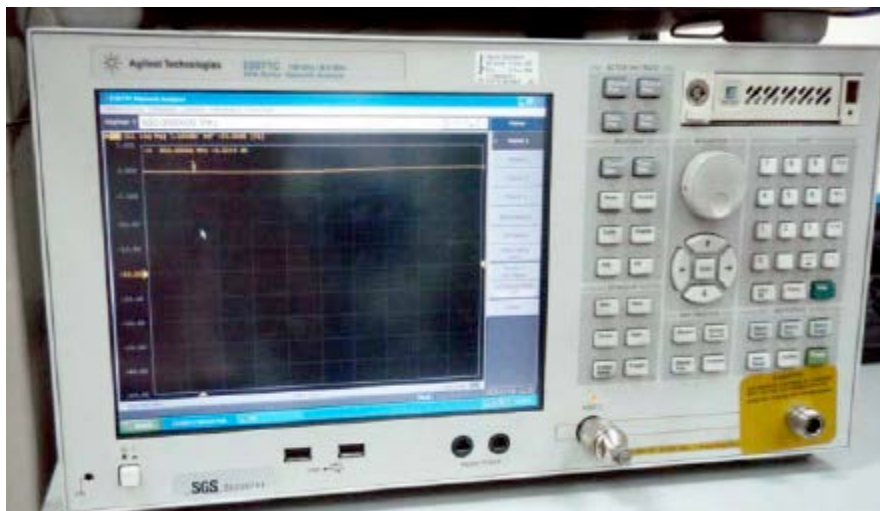


Figure 2. Network Analyzer.

4. Antenna Parameters

The next antenna parameter graphs like Return Loss were measured in the Agilent 5071C Vector Network Analyzer. The Gain, Efficiency and Radiation Patterns were measured in the reliable Satimo 3D Scan System.

4.1 Return Loss Data



Figure 3. Return Loss for the FXP14 Antenna.

4.2 Gain Data

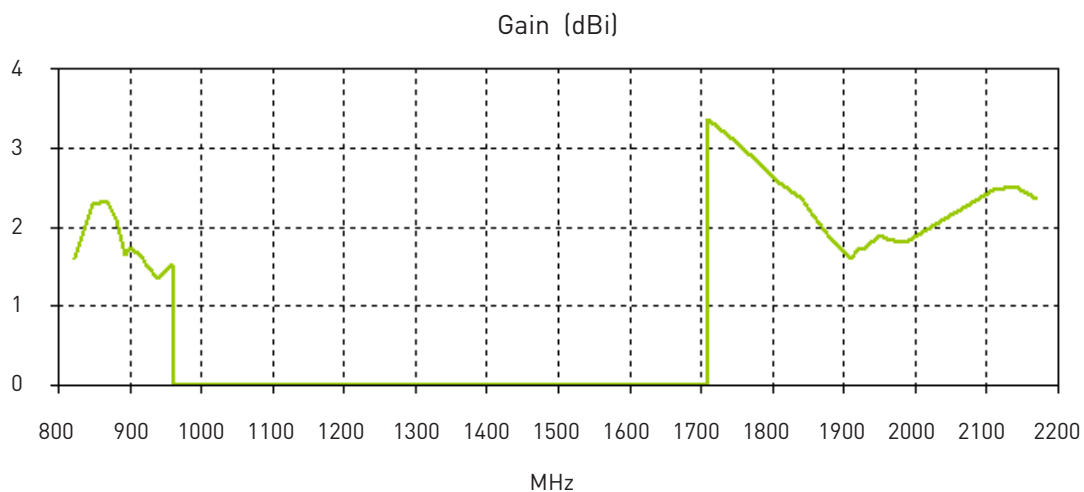


Figure 4. Gain for the FXP14 Antenna.

4.3 Efficiency Data

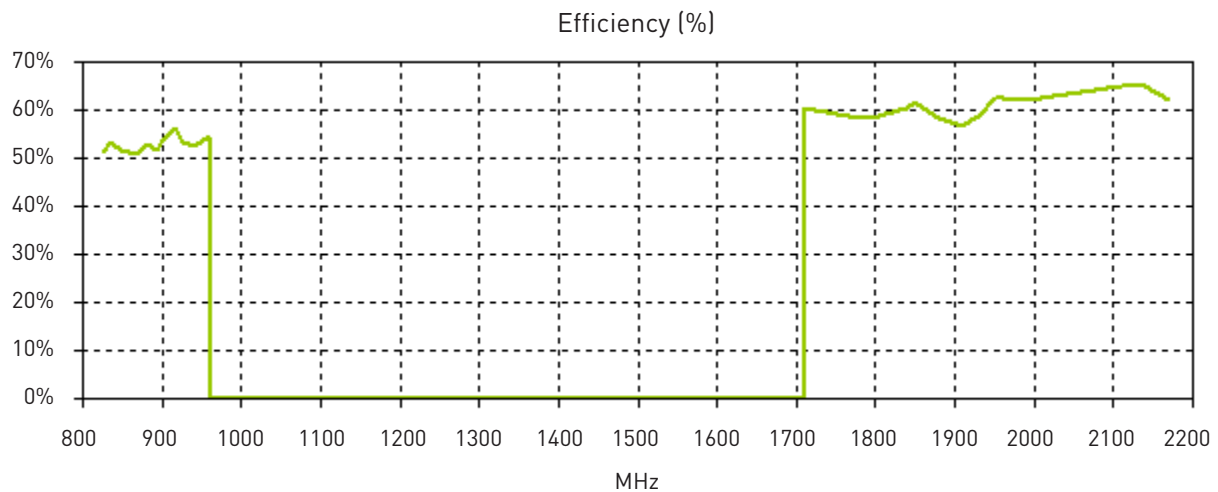


Figure 5. Efficiency for the FXP14 Antenna.

4.4 Radiation Pattern Data

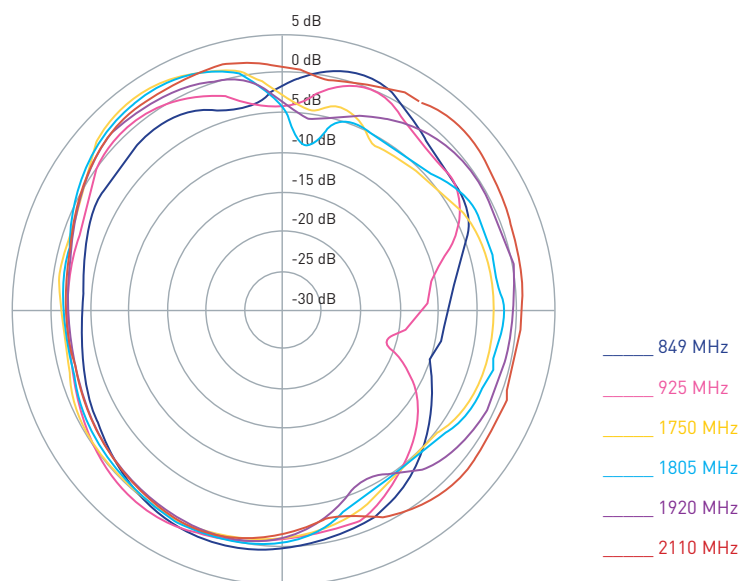


Figure 6. Radiation pattern XZ Plane, Figure 1 as reference (dB)

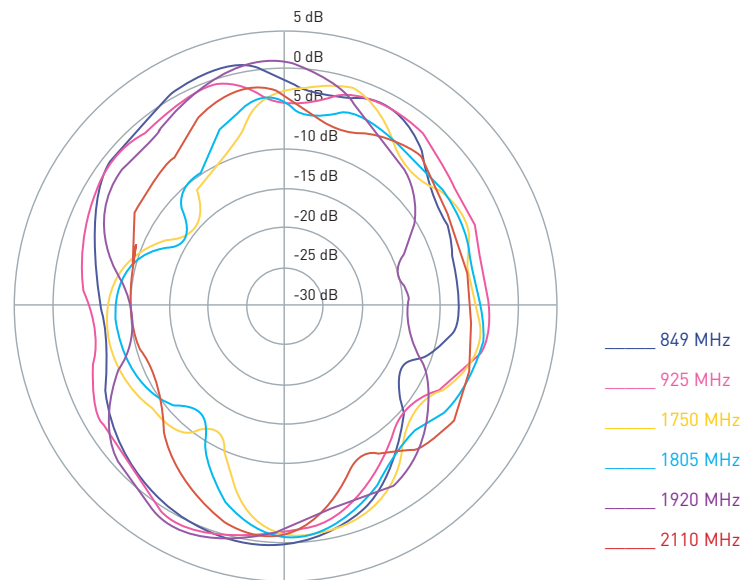


Figure 7. Radiation pattern YZ Plane, Figure 1 as reference (dB)

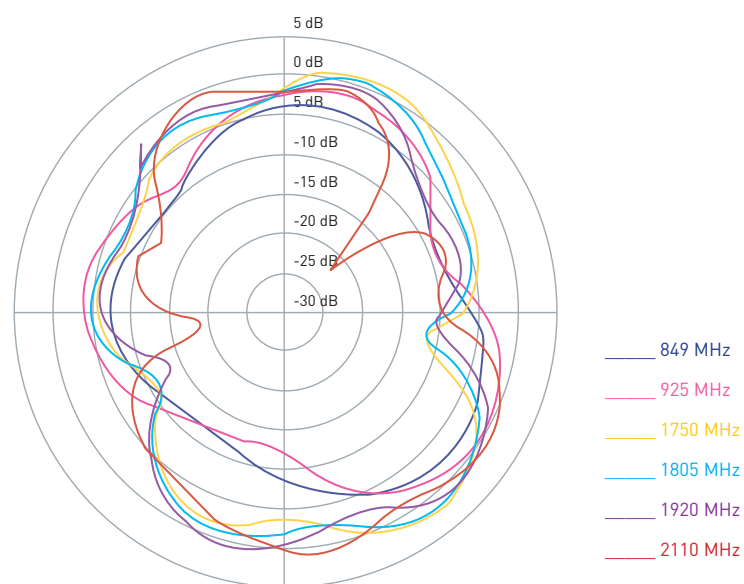


Figure 8. Radiation pattern XY plane, Figure 1 as reference (dB)

5. Drawing

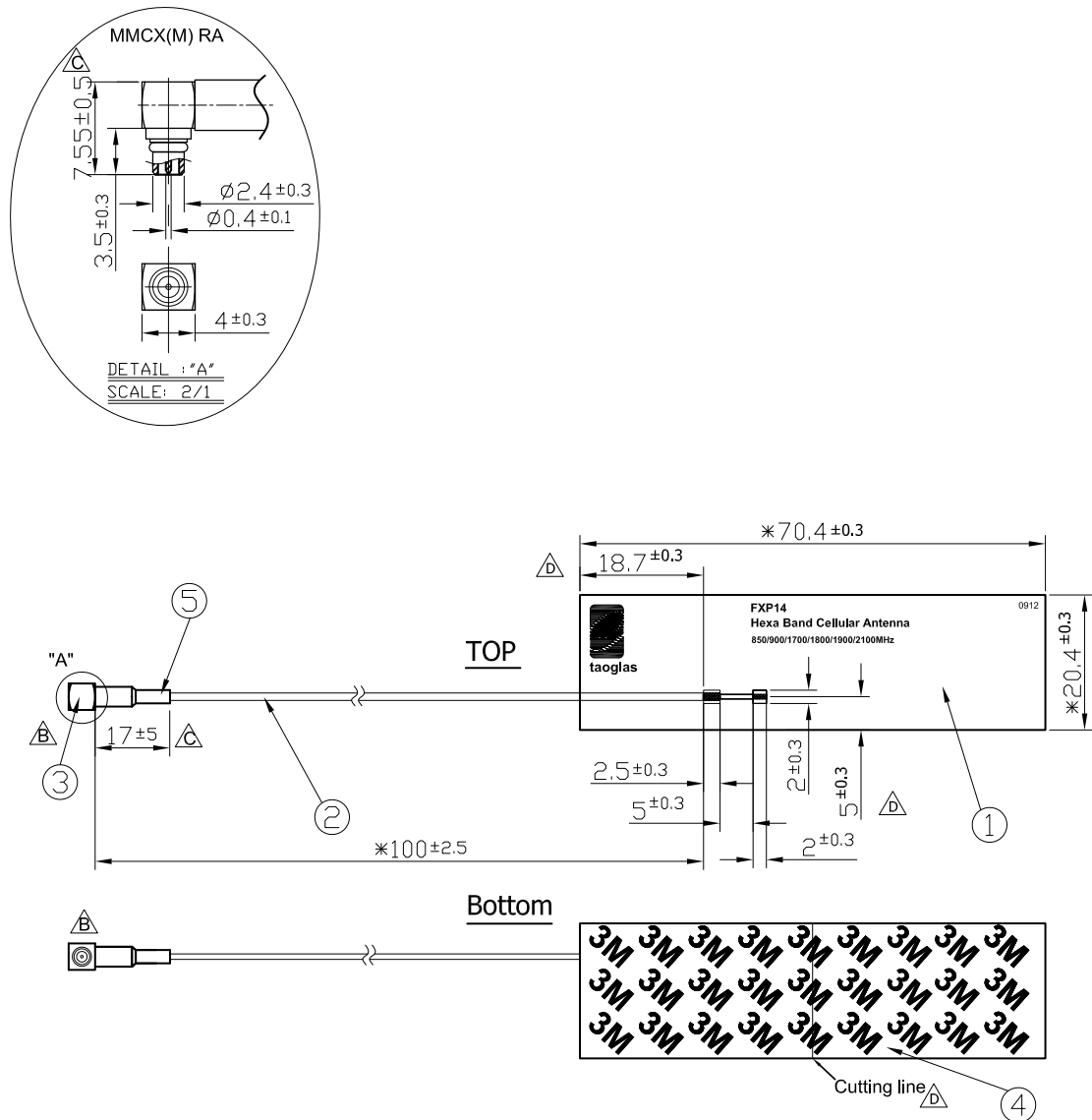
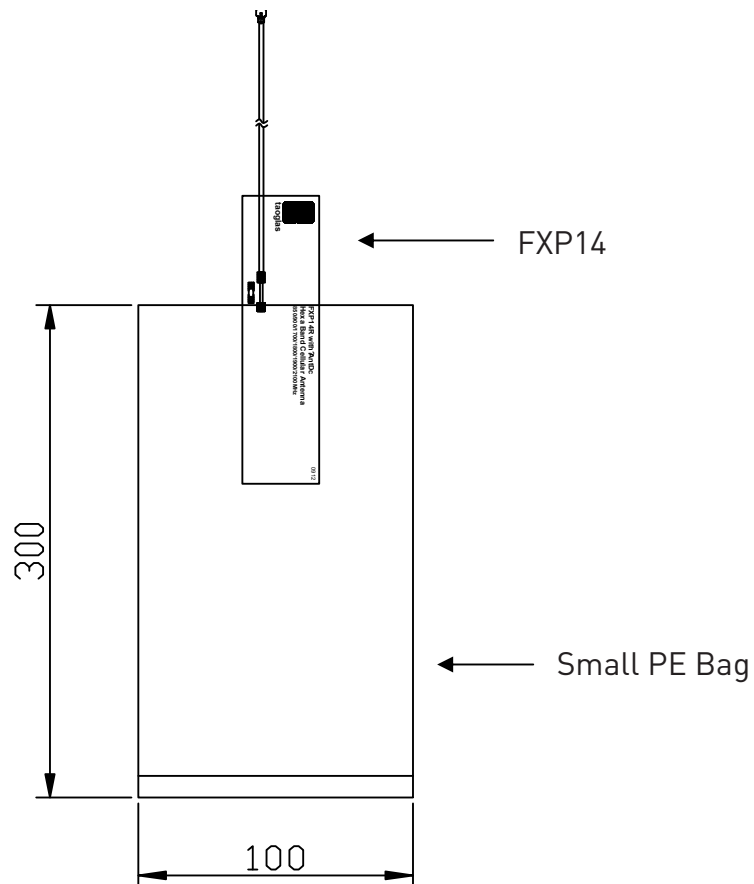


Figure 9. Mechanical Drawing for the FXP14 Antenna

	Name	Material	Finish	QTY
1	FXP14 PCB	FPCB 0.1t	Black	1
2	1.13 Coaxial Cable	FEP	Black	1
3	MMCX(M) RA	Brass	Gold	1
4	Double-Sided Adhesive	3M 467	Brown Liner	1
5	Heat Shrink Tube	PE	Black	1

6. Packaging

100pcs antenna per small PE bag



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