

SPECIFICATION

Part No. : **FXP40.07.0085A**

Product Name : Quad-Band GSM850/GSM900/DCS/PCS Flexible

PCB Antenna

Features : 824-960/1710-1990MHz Application bands

1.37 dBi Peak Gain

42.6*12.1*0.15mm Tiny Dimension

IPEX MHFI (U.FL Compatible)

85mm 1.13mm cable

RoHS Compliant





1. Introduction

The FXP40 is a super small monopole ultra low profile antenna for GSM850/GSM900/DCS/PCS quad bands. The FXP40 has a peak gain of 1.3dBi and efficiencies of 56%.

It is made from poly-flexible material, has a tiny form factor (42.6mm*12.1mm*0.15mm) and has double-sided 3M tape for easy "peel and stick" mounting.

Across the bands and is designed to be mounted directly onto a plastic. It is an ideal choice for any device maker that needs to keep manufacturing costs down over the lifetime of a product.

The cables length can be customizable for customers.



2. Specification

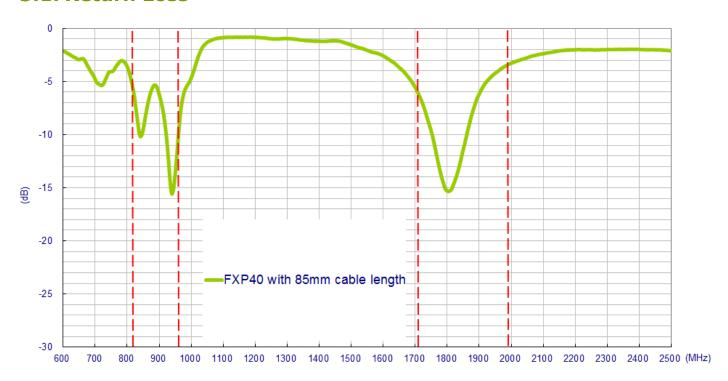
ELECTRICAL								
	GSM850	GSM900	DCS	PCS				
Frequency (MHz)	824~896	880~960	1710~1880	1850~1990				
Max Return Loss (dB)	<-5	<-5	<-5	<-3				
Peak Gain (dBi)	-3.83	-3.25	1.37	1.03				
Efficiency (%)	24	26	51	56				
Average Gain (dB)	-6.22	-6.57	-2.87	-2.49				
Radiation Properties	Omni-directional							
Max Input Power (Watts)	5							
Polarization	Linear							
Impedance (Ohms)	50 Ohms							
MECHANICAL								
Dimensions (mm)	46.2*12.1*0.15 mm							
Material	Flexible Polymer							
Connector and Cable	IPEX MHFI (U.FL Compatible) and 1.13 mm mini coax							
Weight	88g							
ENVIRONMENTAL RATINGS								
Operation Temperature	-40°C to 85°C							
Storage Temperature	-40°C to 85°C							
Relative Humidity	40% to 95%							
RoHs Compliant	Yes							

^{*}All results were measured with 85mm length 1.13mm coaxial cable and on 2mm thickness ABS base.

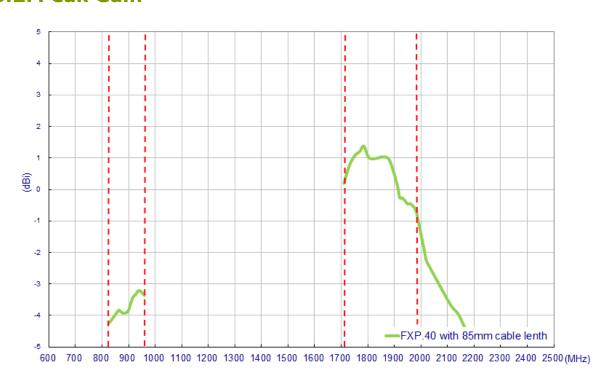


3. Antenna Characteristics

3.1. Return Loss

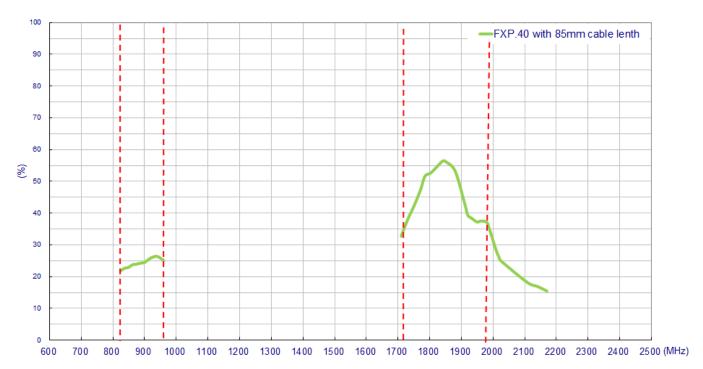


3.2. Peak Gain

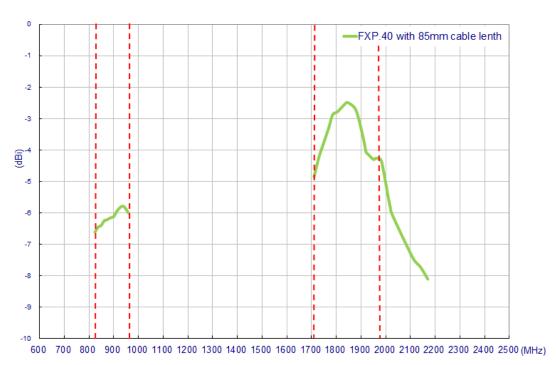




3.3. Efficiency



3.4. Average Gain





4. Antenna Radiation Patterns

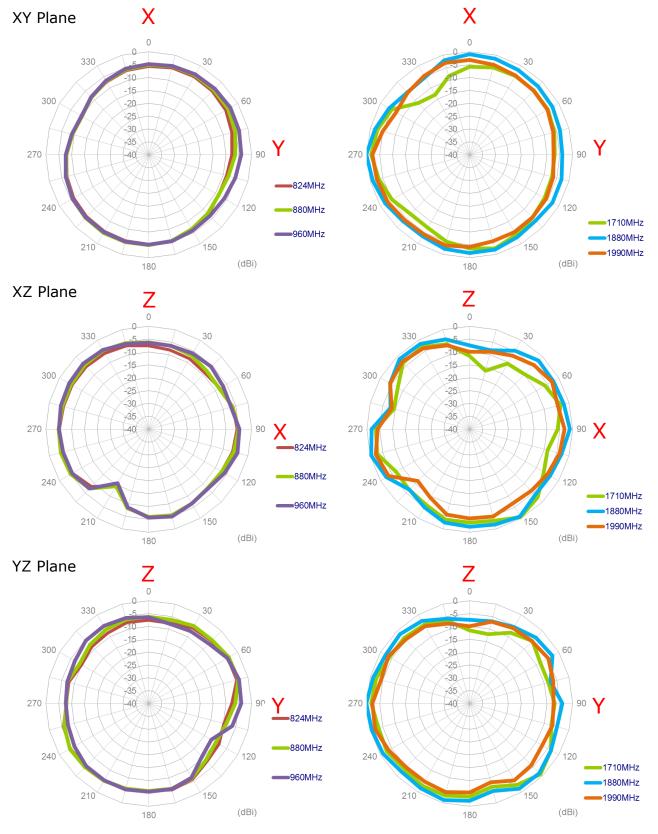
4.1. Antenna setup

The antenna radiation pattern measured setup as shown the below,



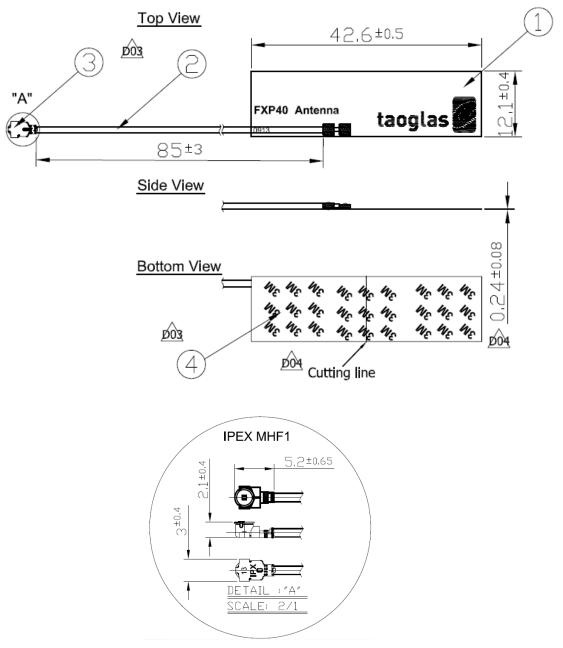


4.2. Antenna radiation patterns





5. Mechanical Drawings (Unit: mm)



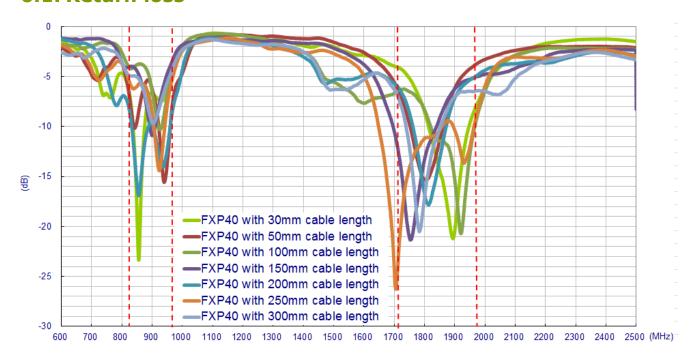
	Name	P/N	Material	Finish	QTY
1	FXP40 PCB	100113I010011A	FPCB 0.1t	Black	1
2	1.13 Coaxial Cable	300213A000013A	FEP	Black	1
3	IPEX MHF1	204111D000013A	Brass	Gold	1
4	Double-Sided Adhesive	100113I010011A	3M 467	Brown Liner	1



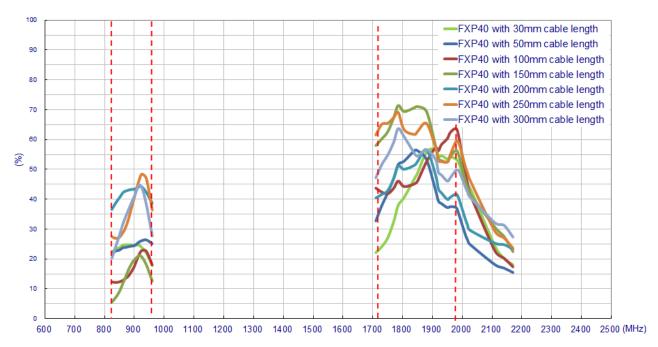
6. Application Note

The FXP40 antenna measurement with difference cable length on plastic plate of 2 mm thickness, the performance is shown as below,

6.1. Return loss

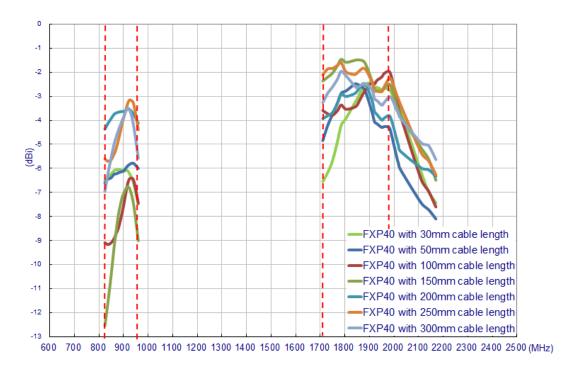


6.2. Efficiency

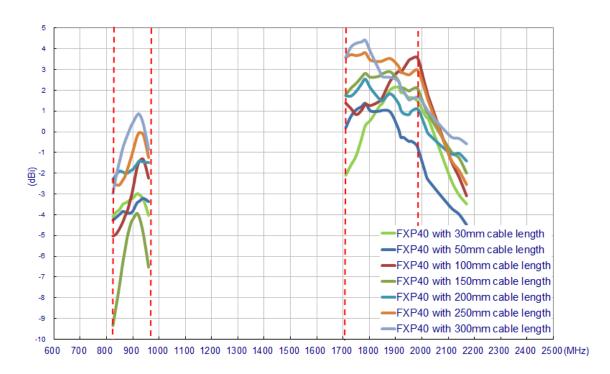




6.3. Average Gain



6.4. Peak Gain





7. Packaging

Package: 1PCS Antenna=0.8g Shrink Line PE Bag Small PE Bag Small PE Bag Small PE Bag Small PE Bag Sig PE Bag

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10 Big PE Bag / Box = 30000 PCS Antenna =26.7Kg

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160mm

30 Small PE Bag / Big PE Bag = 3000 PCS Antenna =2665g

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