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Specification

Spec No. : **FXP245**
 Part No. : **FXP245.07.0100A**
 Model : 450MHz ISM Band Flex Circuit Antenna
 Features : 75*45*0.1mm
 100mm Ø1.13 Cable
RoHS ✓



VERSION	DATE	PAGE	DESCRIPTION	CENTRE	APPROVED
A	09/21/2009	All	Antenna Specifications	Taiwan	Ruben F. Cuadras

I. OVERVIEW

The Taoglas FXP245 450 MHz ISM Antenna covers from 450-457 MHz used in the 450 MHz ISM (Industrial Scientific Medical) Band. The antenna has been designed in a flexible material with a square 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.

II. ANTENNA CHARACTERISTICS

Parameter	Specification
Frequency Range	450MHz to 457MHz
Return Loss (dB)	-20
Gain (dBi)	0
Impedance	50 Ω
VSWR	$\leq 2:1$
Polarization	Linear
Power Handled	5W
Operation Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Dimensions	75*45*0.1mm
Weight	1.5g
Connector	MHFII (U.FL Compatible)
Cable Standard	Mini-Coax 1.13 mm
Cable Length and color	100mm, Black
RoHS Compliant	Yes
Adhesive	3M 467

III. TEST SET UP

Rhode & Schwartz ZVL6 Vector Network Analyzer

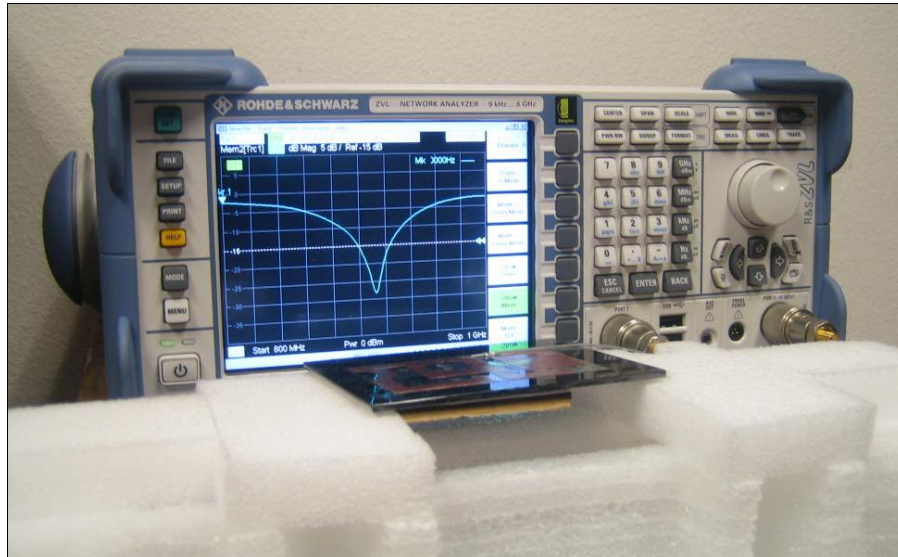


Figure 1. Network Analyzer.

IV. ANTENNA PARAMETERS

The next antenna parameter graphs like Return Loss, VSWR and smith chart were measured in the Agilent Rhode & Schwartz ZVL6 Vector Network Analyzer.

A. Return Loss Data

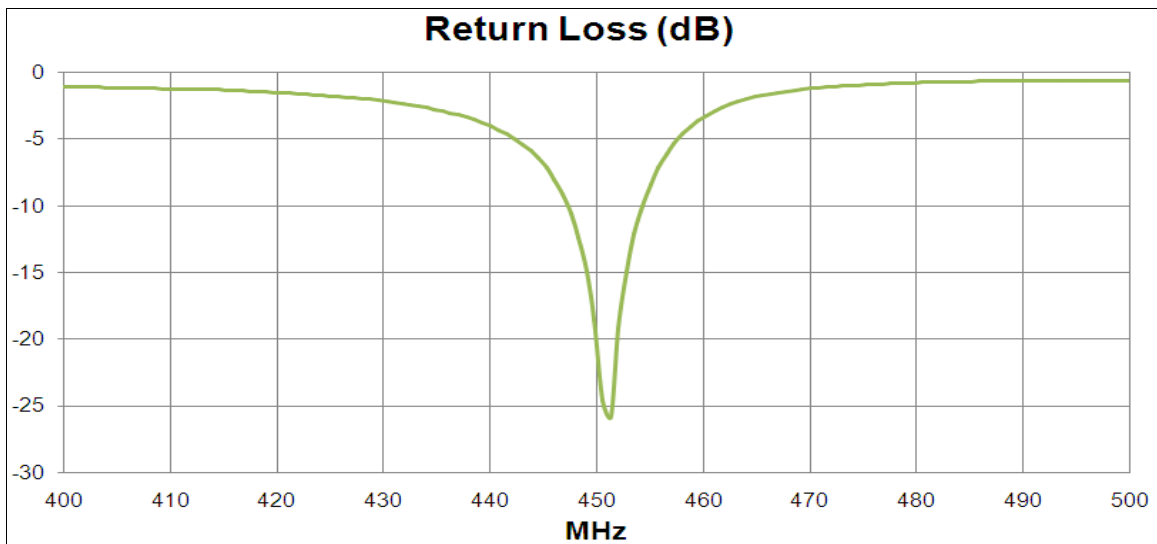


Figure 2. Return Loss for the FXP245 Antenna.

B. VSWR Data

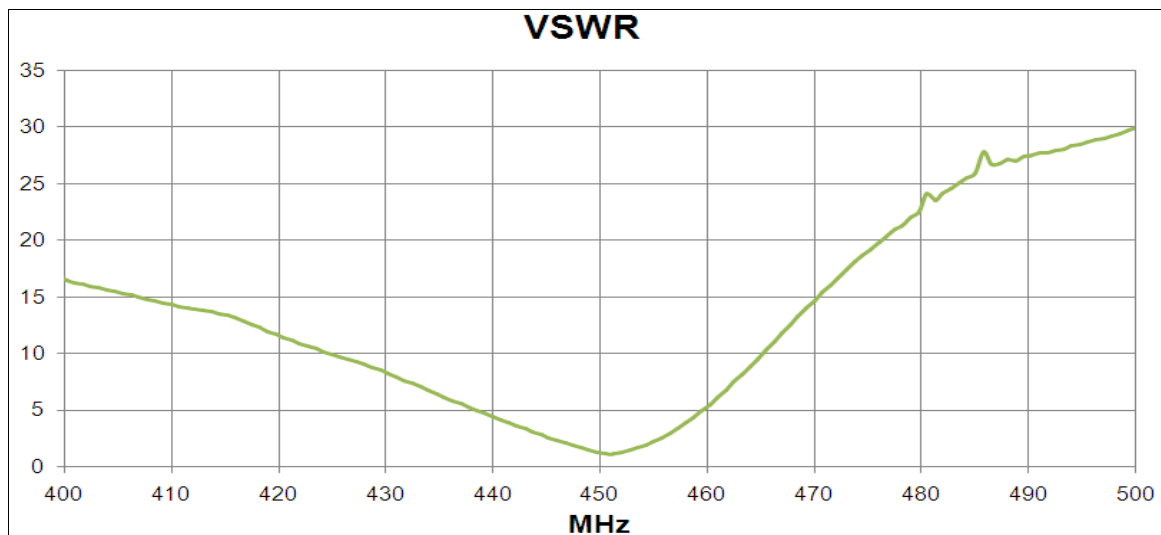


Figure 3. VSWR for the FXP245 Antenna.

C. Smith Chart Data

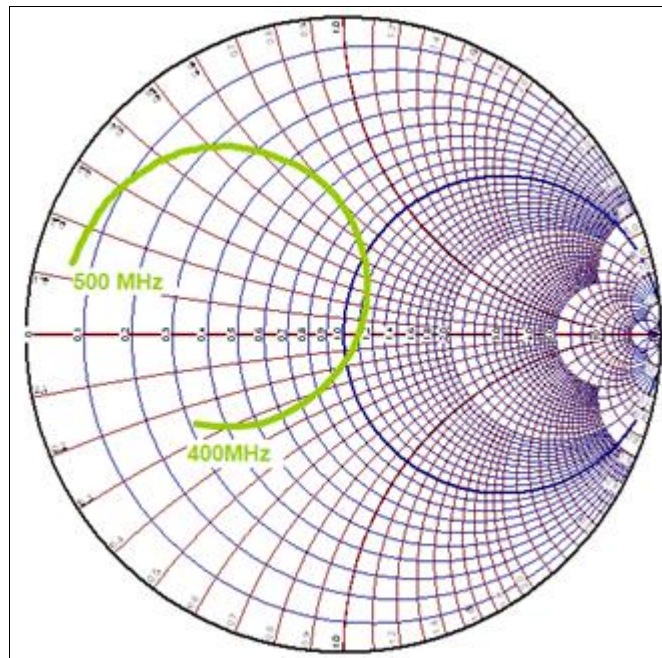
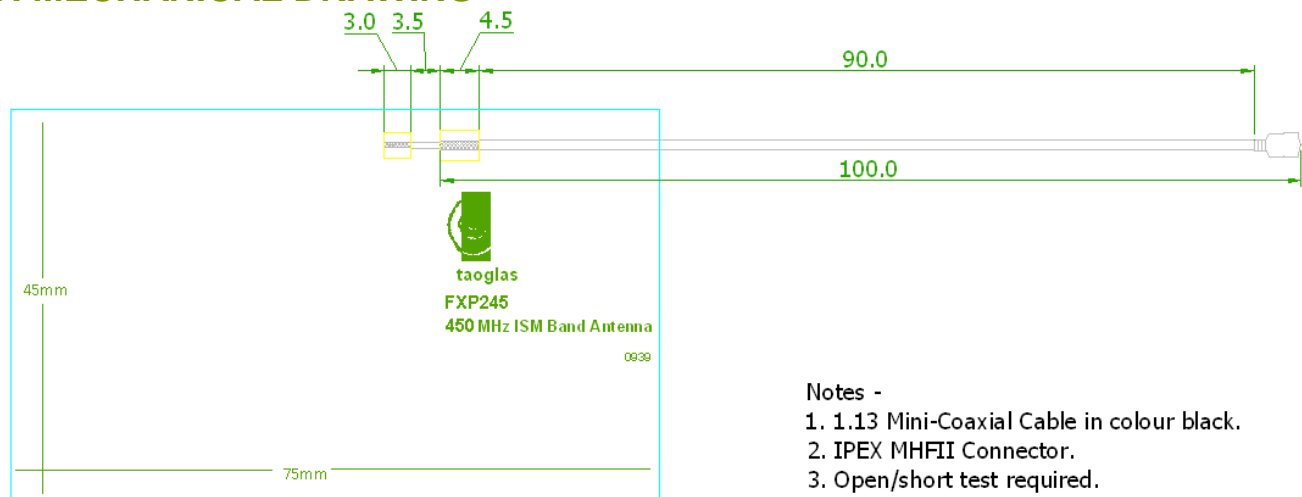


Figure 4. Smith Chart for the FXP245 Antenna.


V. MECHANICAL DRAWING



Notes -

1. 1.13 Mini-Coaxial Cable in colour black.
2. IPEX MHFII Connector.
3. Open/short test required.

XXX.	±2.0	PART NO		PRODUCT NAME			
XX.	±1.0	FXP245		FXP245 450 MHz ISM Band Antenna			
X.	±0.5						
.X	±0.1	REV	UNIT	SCALE	SIZE	SHEET	CUSTOMER
.XX	±0.05	A	mm	1/1	A 4	1 OF 1	taoglas



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Figure 5. Mechanical Drawing for the FXP245 Antenna.