

FXP280 Flexible PCB 868MHz Antenna

HOGLAS

EXP DE DE CARA

Part No: FXP280.07.0100A

Description:

868MHz LoRA, Sigfox, ISM Flexible PCB Antenna with 100mm of Ø1.13 cable and IPEX MHFI Connector

Features:

Operates between 863-870MHz Covers LoRA, Sigfox ISM band 868MHz Dimensions: 75*45*0.2mm Cable: 100mm of Ø1.13 Connector: IPEX MHFI (U.FL Compatible RoHS & Reach Compliant



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1. Introduction



The Taoglas FXP280 is a rectangular Flexible PCB Antenna designed to be used at the 868MHz band on the LoRA/Sigfox Network and the ISM Network. This small antenna has been designed to be flexible and fit in many different enclosures and be mounted on many different surfaces. The FXP280 comes with 3M adhesive for ease of installation and is fed by a cable and connector.

Typical Applications Include:

- Medical Devices
- Smart Monitoring
- Smart Home

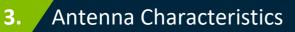
The FXP280 has been tested with2mm thick ABS and these results are provided. The Cable and connector is fully customizable for further information please contact your regional Taoglas customer support team.



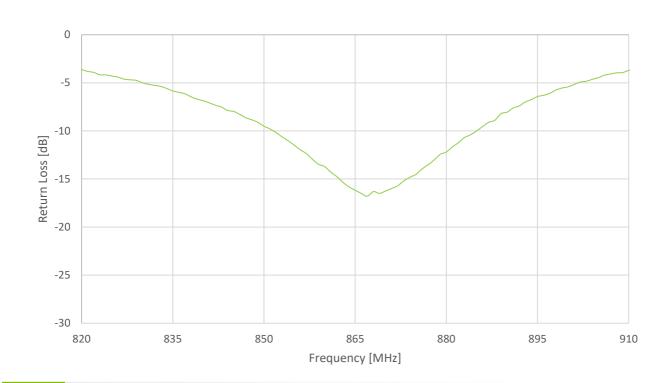
2.

	Electrical
Frequency (MHz)	863~870
Return Loss (dB)	-16
Efficiency (%)	52
Gain (dBi)	1.8
Impedance	50 Ω
VSWR	≤2:1
Polarization	Linear
Max Power Input	5W
	Mechanical
Dimensions	75*45*0.1mm
Weight	1.5g
Connector	IPEX MHFI (U.FL Compatible)
Cable Standard	Mini-Coax 1.13 mm
Cable Length and color	100mm, Black
RoHS Compliant	Yes
REACH Compliant	Yes
Adhesive	3M 467
	Environmental
Operation Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C

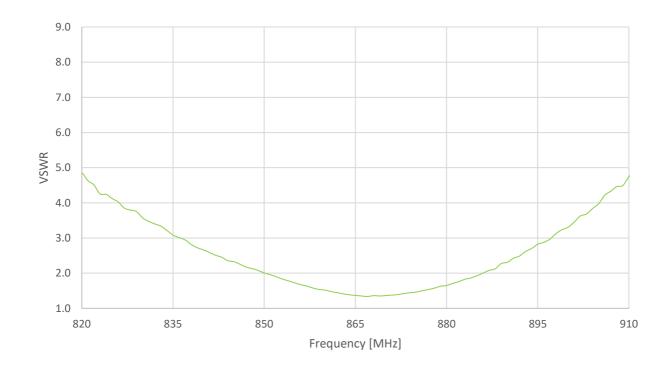




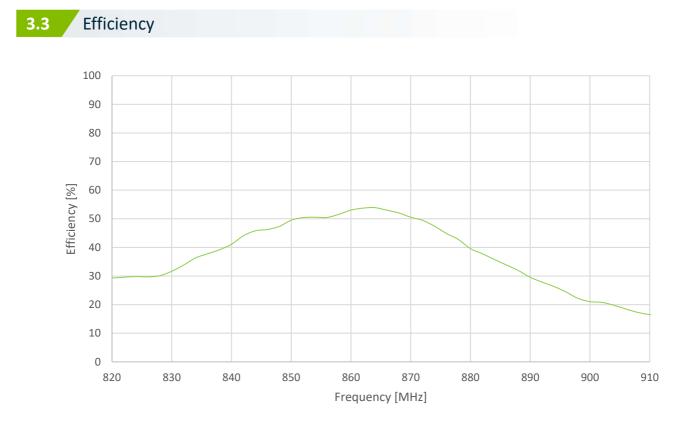




3.2 VSWR

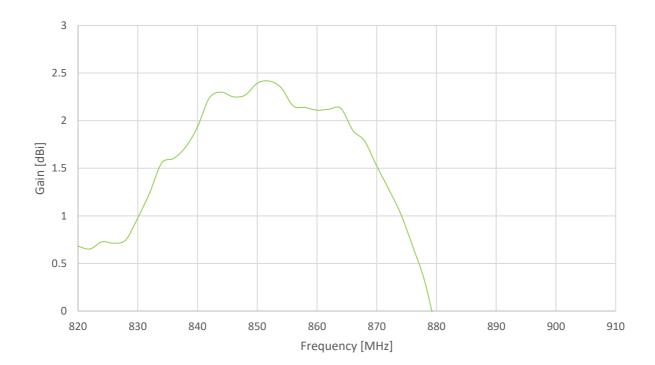






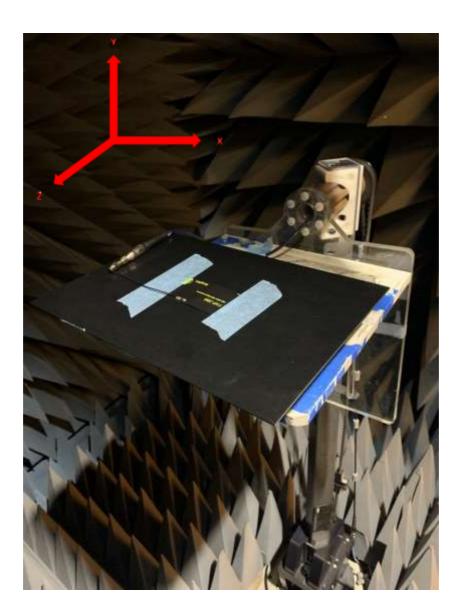


Peak Gain



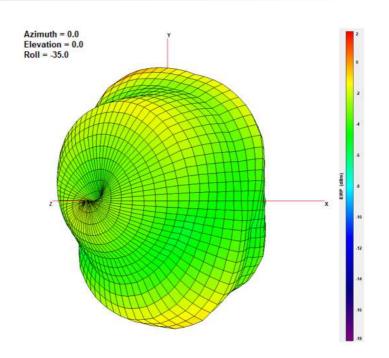


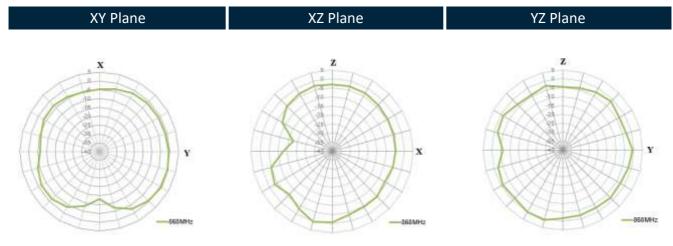
4.1 Test Setup on 2mm Thick ABS





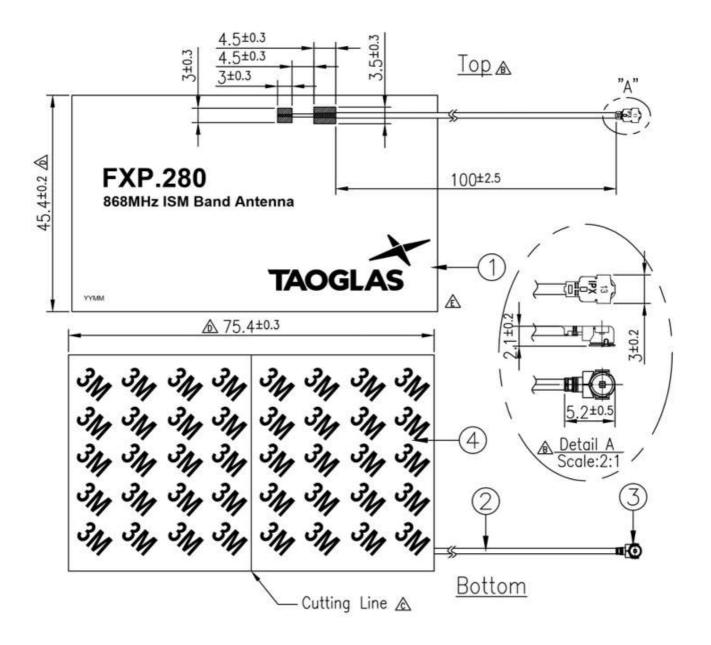
4.2 868MHz 3D and 2D Radiation Patterns







5.



SPE-13-8-060-C



6. Packaging

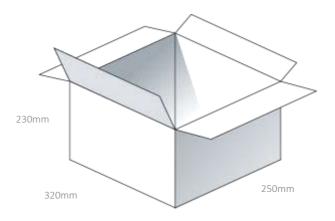
100pcs FXP280.07.0100A per PE Bag Dimensions - 300*160mm Weight - 110g



1000pcs FXP280.07.0100A per Large PE Bag Dimensions - 450*250mm Weight - 1.2Kg



5000pcs FXP280.07.0100A per carton Dimensions - 320*250*230mm Weight - 6.1Kg



SPE-13-8-060-C



Changelog for the datasheet			
SPE-13-8-060 – FXP	280.07.0100A		
Revision: C (Current	Version)		
Date:	2022-02-04		
Changes:	Updated data		
Changes Made by:	Gary West		

Previous Revisions

Г	Revision: B		
E	Date:	2020-03-31	
	Changes:	Packaging Details, Drawing & Photo Updated	
	Changes Made by:	Jack Conroy	
	changes made sy.	Jack comby	

Revision: A (Original First Release)		
Date: 2013-09-03		
Notes:		
Author: Technical Writer		



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