

868/915MHz ISM/LoRA Flexible PCB Antenna

Part No: FXP895.07.0200C

Description

860-928MHz ISM/LoRA Compact Flexible PCB Antenna

Features:

Compact ISM/LoRA antenna Embedded FPC Antenna Supporting 860 to 928MHz Dimensions: 69mm * 20mm * 0.2mm Mini coaxial cable 200mm 1.37 IPEX MHFI U.FL Compatible connecto Custom Cables and Connectors Available RoHS & Reach Compliant



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Introduction

1.



The Taoglas FXP895 is an ISM/LoRA compact flexible PCB antenna designed to fit into small devices. This antenna has been expertly designed to cover frequencies used in different regions for ISM/LoRA applications, incorporating a wideband design is rare for ISM/LoRA products and with the FXP895 frequencies from 860-928MHz can be covered so one SKU can be used for global ISM/LoRA applications.

The FXP895 has been designed to be extremely compact compared to other ISM/LoRA Flexible PCB antennas meaning it can be placed in areas where other products cannot. It can be adhered via 3M tape on to a customer's device with care taken to ensure the antenna is placed as far away from metal components as possible.

Typical Applications Include:

- Remote Monitoring
- Mesh Networks
- Security

The FXP895's cables and connectors are fully customizable, please contact your regional Taoglas customer support team for further information.



Specification

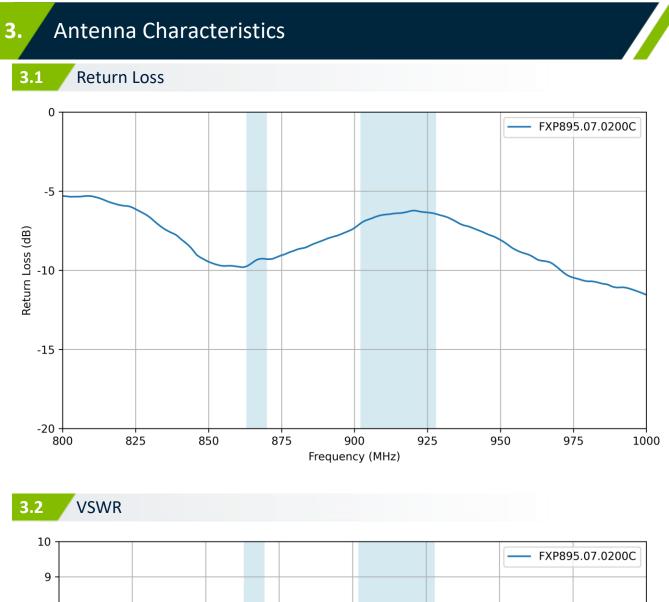
2.

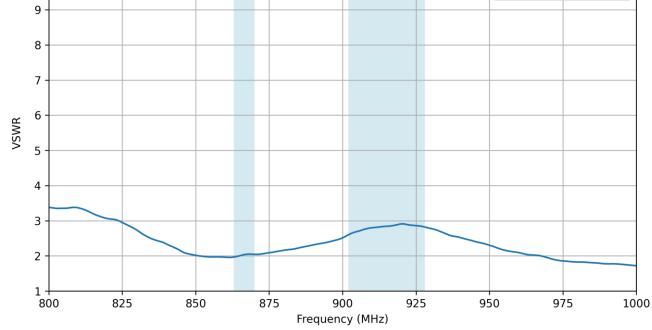
			LTE	Electrical				
Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
868MHz	863-870	51.6	-2.87	1.92	50 Ω	Linear	Omni	2W
915MHz	902-928	58.3	-2.34	2.83	50 12	Linear	Omm	2 VV

	Mechanical
Dimensions	69.3 x 20 x 0.2mm
Weight	2g
Material	Polymer
Connector	IPEX MHFI U.FL compatible
Cable	1.37mm Coaxial

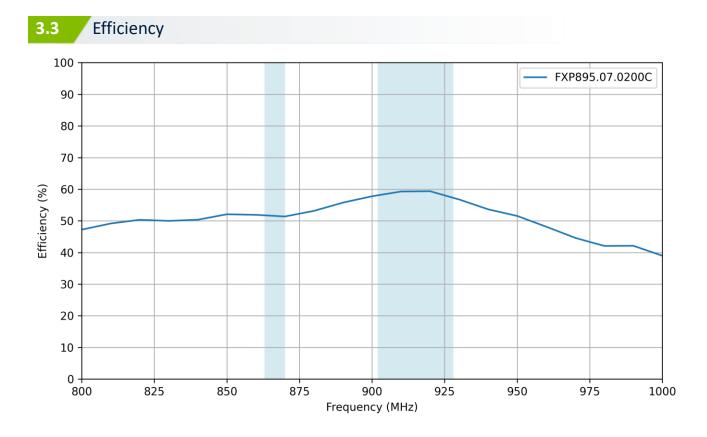
	Environmental
Operation Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C
Relative Humidity	40% to 95%
RoHs & REACH Compliant	Yes

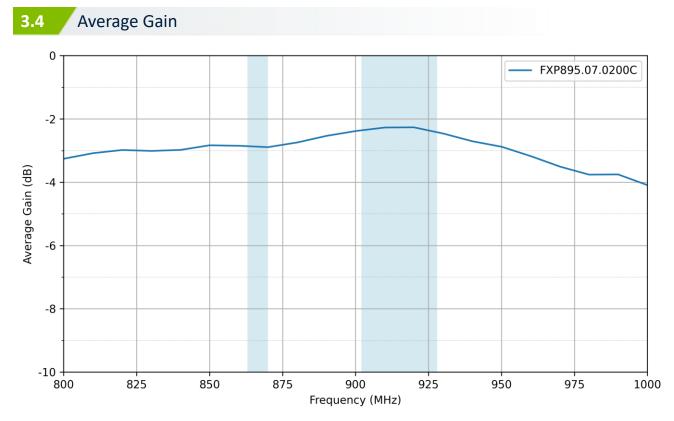




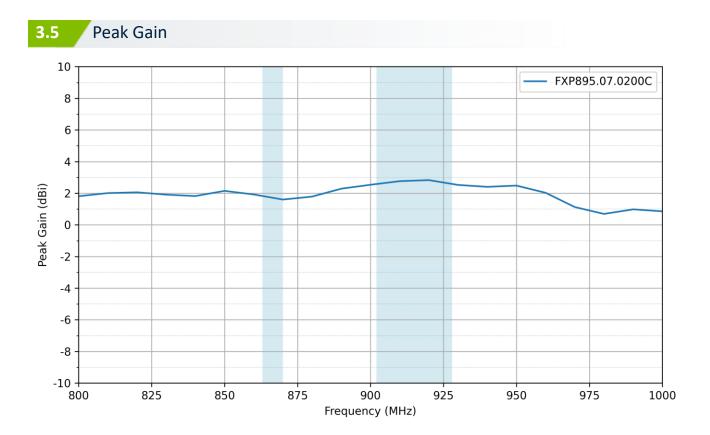










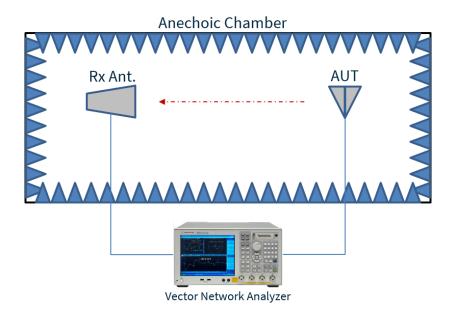








4.

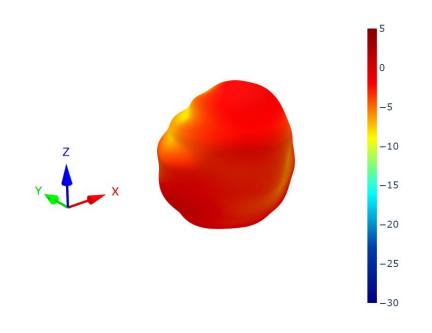


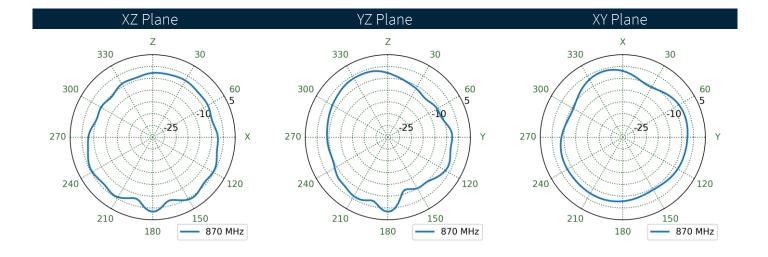


Chamber Test Setup on plastic



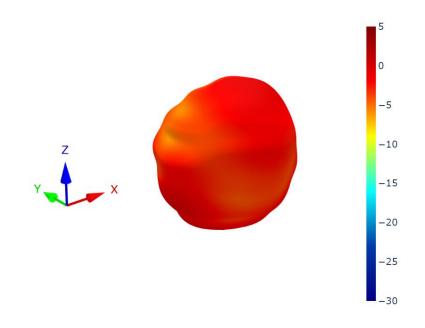
4.2 FXP895.07.0200C Patterns at 868 MHz

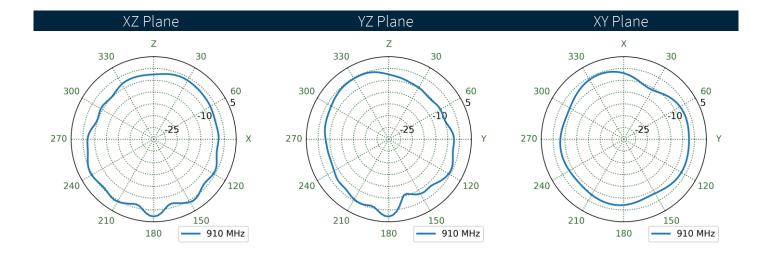






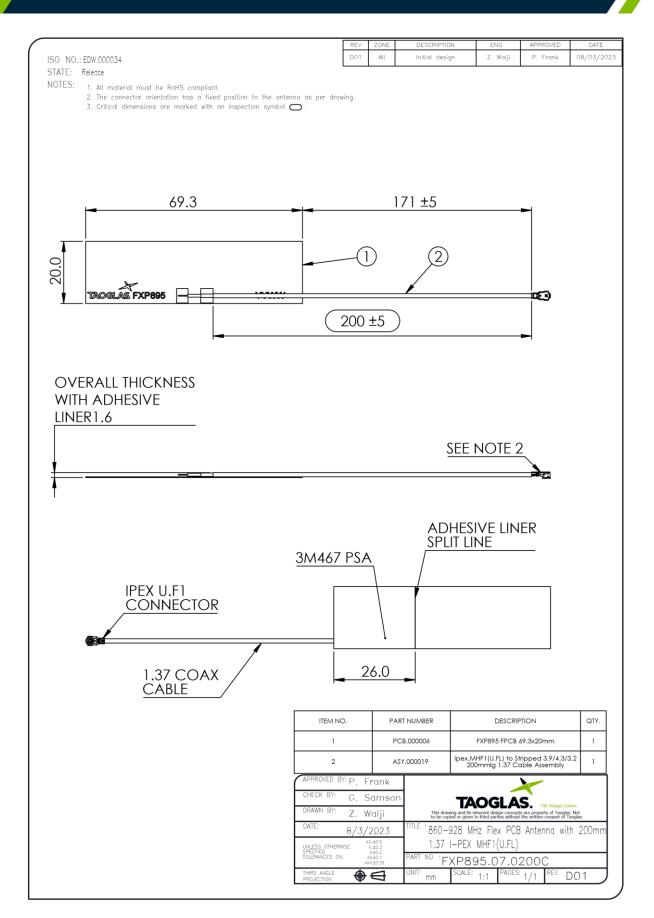
4.3 FXP895.07.0200C Patterns at 915 MHz













6.

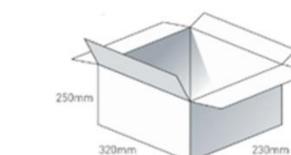
Packaging

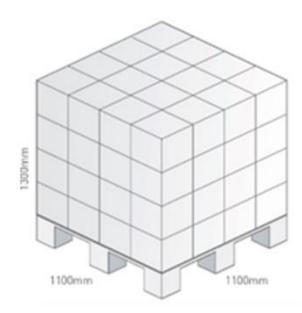
100pcs FXP895.07.0200C per PE Bag Dimensions 300*100mm Weight – 150g



1000pcs FXP895.07.0200C per Large PE Bag Dimensions 450*280mm Weight – 1.5Kg

5000pcs FXP895.07.0200C per carton Dimensions 320*250*230mm Weight – 6Kg





Pallet Dimensions 1100*1100*1300mm 65 Cartons per pallet 13 Cartons per layer 5 Layers



Changelog for the d	atasheet
SPE-24-8-015 – FXP	895.07.0200C
Revision: A (Origina	l First Release)
Date:	2024-08-26
Notes:	Updated specifications
Author:	Cesar Sousa

Previous Revisions

Revision: A (Origina	
	2024-01-19
Notes:	First Release
Author:	Gary West





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