



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 EPC Antenna Supporting 860 to 928MHz

Dimensions: 69mm * 20mm * 0.2mm

Mini coaxial cable 200mm 1.37 IPEX MHFI U.FL Compatible connector

Custom Cables and Connectors Available

RoHS & Reach Compliant



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1. Introduction



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.

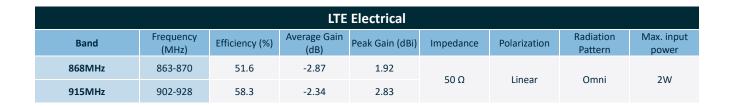
Typical Applications Include:

- 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.



2. Specification



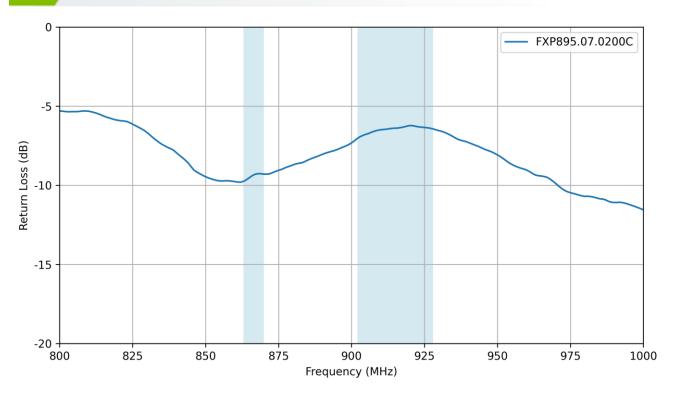
	Mechanical		
Dimensions	69.3 x 20 x 0.2mm		
Weight	2g		
Material	Polymer		
Connector	IPEX MHFI U.FL compatible		
Cable	1.37mm Coaxial		

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

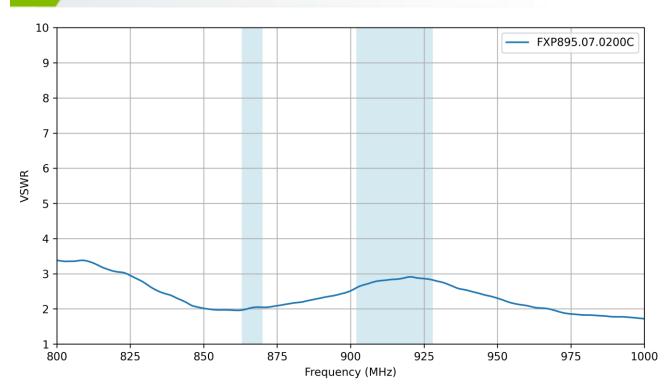


3. Antenna Characteristics

3.1 Return Loss

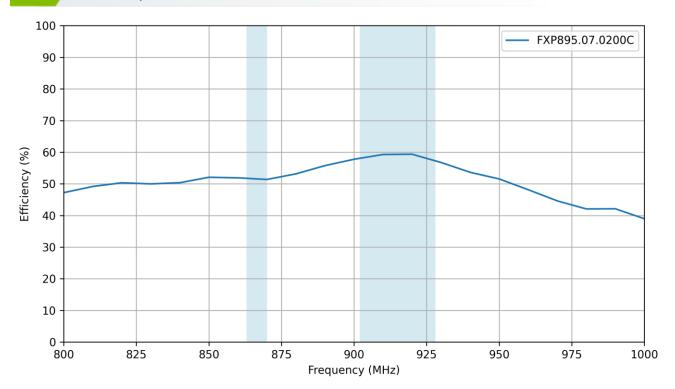


3.2 VSWR

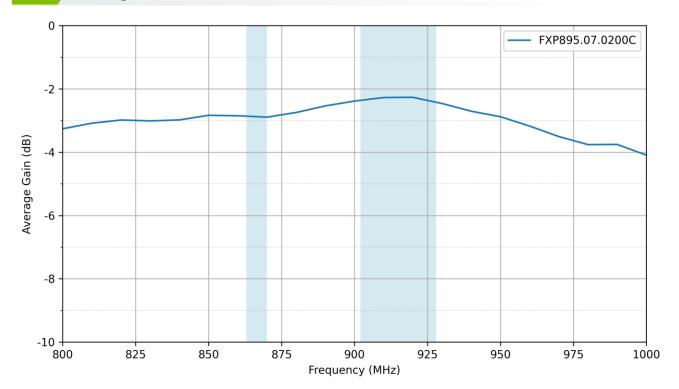




3.3 Efficiency

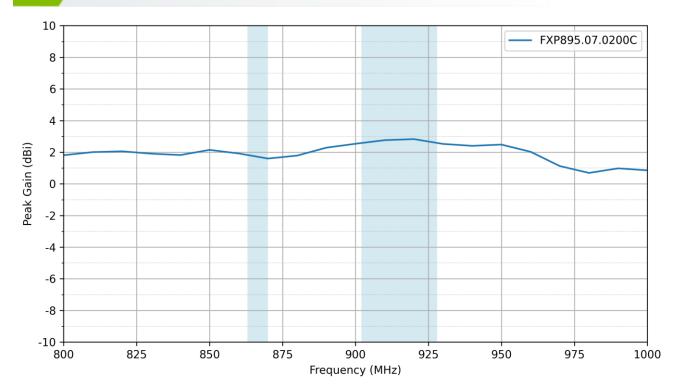


3.4 Average Gain





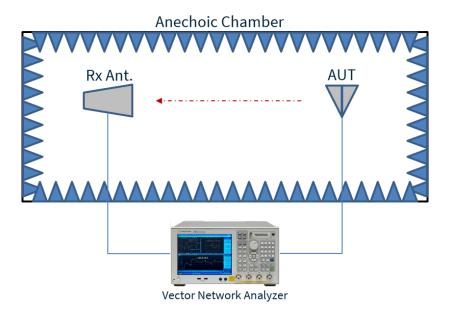
3.5 Peak Gain





4. Radiation Patterns

4.1 Test Setup

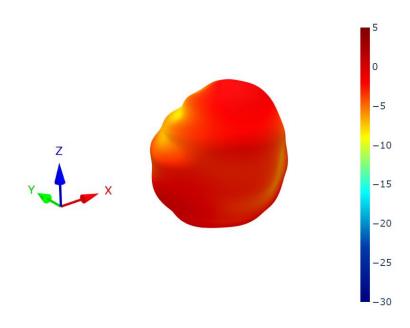


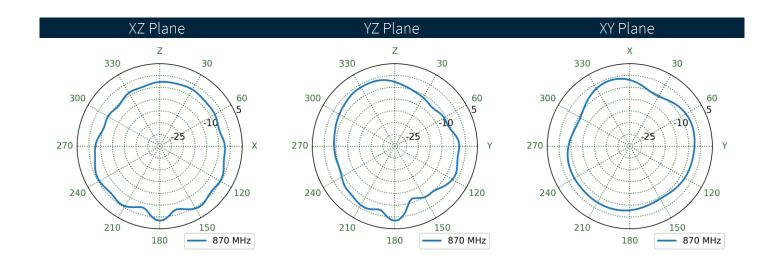


Chamber Test Setup on plastic



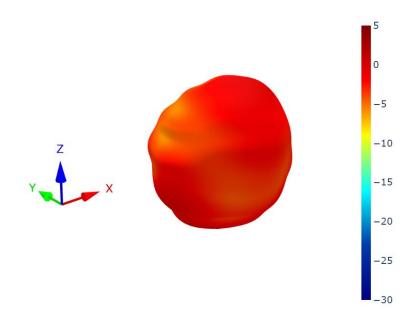
4.2 FXP895.07.0200C Patterns at 868 MHz

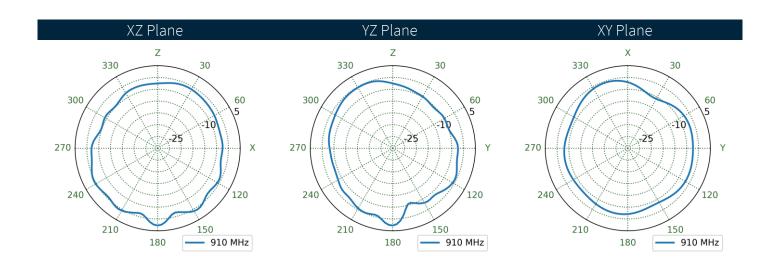




FXP895.07.0200C Patterns at 915 MHz

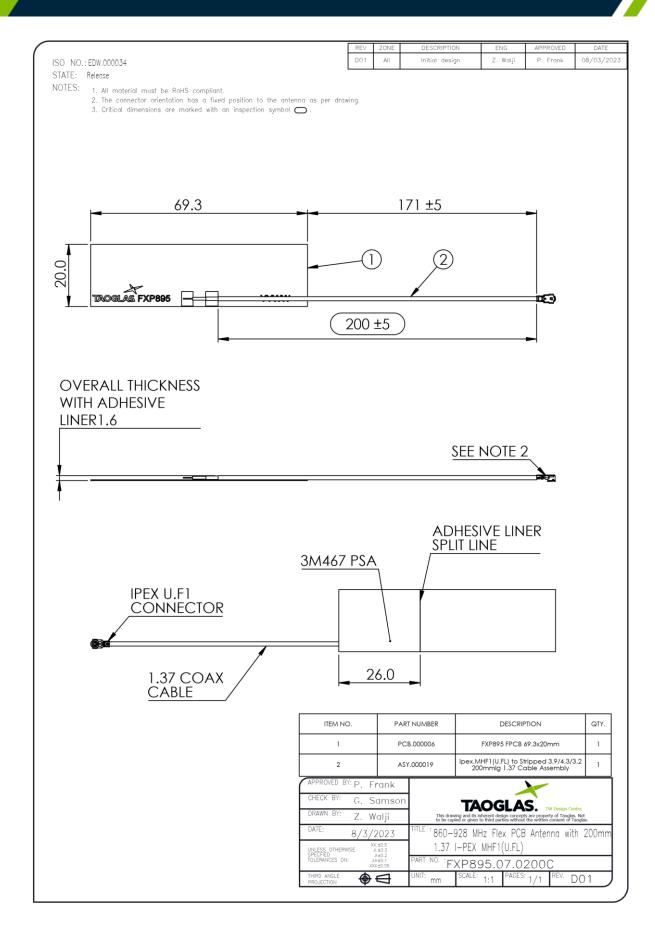
4.3







5. Mechanical Drawing





6. Packaging

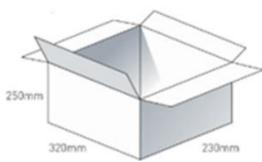
100pcs FXP895.07.0200C per PE Bag Dimensions 300*100mm Weight – 150g



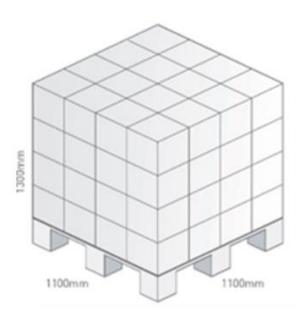
1000pcs FXP895.07.0200C per Large PE Bag Dimensions 450*280mm Weight – 1.5Kg



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 datasheet

SPE-24-8-015 - FXP895.07.0200C

31 L 2 + 0 013 1 XI	033.07.02000
Revision: A (Origina	l First Release)
Date:	2024-08-26
Notes:	Updated specifications
Author:	Cesar Sousa

Previous Revisions

Davisian A (O.1.1	of First Dalacce)
Revision: A (Origina Date:	2024-01-19
Notes:	
Author:	Gary West





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