



Part number: CZ0031-2W03 - FR4 Wi-Fi 6 MIMO Antenna

End Customer: Bosch Rexroth

Project: Project Nexo II

General

Part Number	CZ0031-2W03
Dimensions	45.0 x 6.0 x 0.9 (mm)
Weight	2g
Antenna Type	FR4 + Two RF Cables
Cable Length	100mm, Black x 2
Cable Type	Mini Coax $\varnothing$ 1.13mm
Connector	MHFI (U.FL Compatible)
Adhesive backing	None

RF Specifications

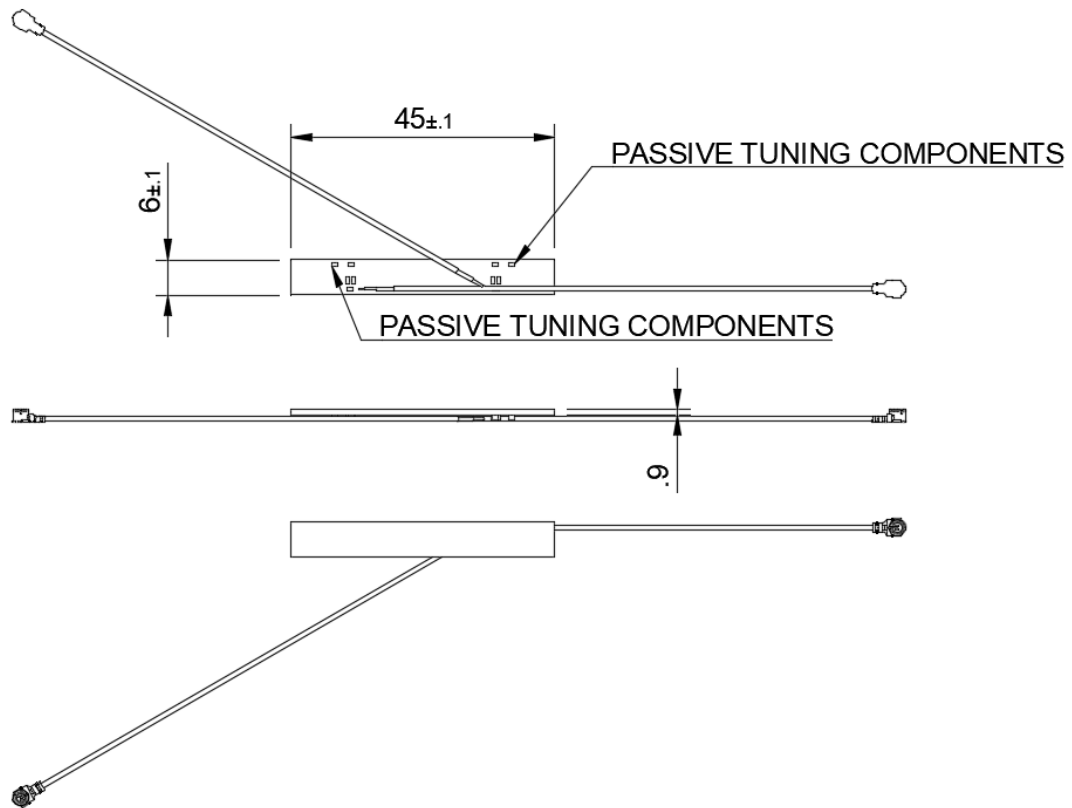
Frequency Range (MHz)	2400-2500	5150-5850	5925-7125
Average Efficiency (%)	32.0	40.0	40.8
Peak Gain (dBi)	1.45	3.14	1.10
Impedance	50 Ω		
Polarization	Linear		
Max Input Power	5W		

Environmental Specifications

Operational Temperature	-40 to +85 (°C)
Storage Temperature	-10 to +40 (°C)
Relative Humidity	$\leq 75\%$



Antenna Mechanical Drawing

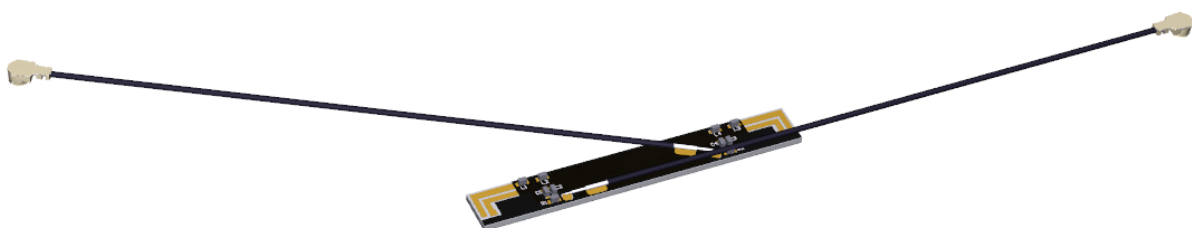


3D View

Part number identification side



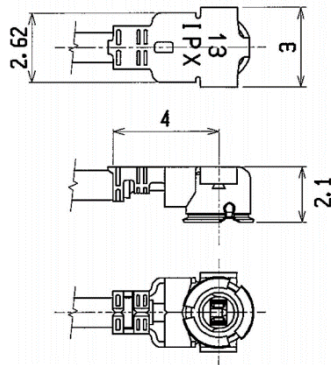
Cable solder point side and tuning components





Connector

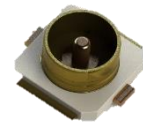
The plug connector on the antenna is an IPEX MHFI.



Suitable PCB mating connector (U.FL) example

Joymax: Model: CT-MPB01X

www.joymax.com.tw





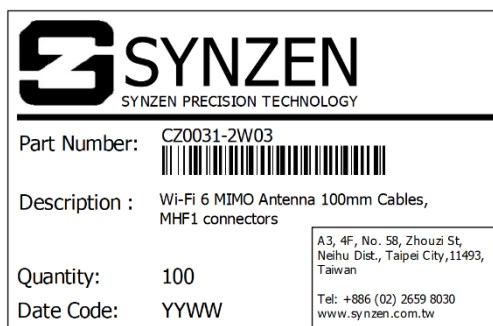
Packaging Information

Antennas packed in PE bag (20 per bag)

Small bag dimensions: 28.5 x 9.5 (cm)

100pcs per larger PE bag with product label

Bag dimensions = 30 x 19 (cm)



Label

- 1000pcs per carton
- Carton dimensions = 34 x 32 x 18 (cm)



Material Regulation

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available upon request.

Approval

Name: _____

Signed: _____

Date: _____



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