



## Features:

- Frequency 868-920MHz
- Antenna type Folded PIFA
- Size 39 x 14.4 x 4.8 mm
- Radiation pattern Omni
- Impedance 50 Ohm
- Tape & Reel Packing
- RoHS compliant

## Applications:

- All Sigfox network regions
- Suitable for SMT mounting
- Extremely robust structure using single folded sheet metal radiator
- Tunable for application using radio PCB layout slot tuning features

All dimensions are in mm

Issue: 2042

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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**ELECTRICAL SPECIFICATIONS**

Antenna Type	PIFA ANTENNA
Frequency	868-920MHz
Nominal Impedance	50 $\Omega$
Return Loss	< -12dB
Radiation Pattern	Omni
Gain	average -1.9dBi
Efficiency	average 30%
Polarization	Vertical

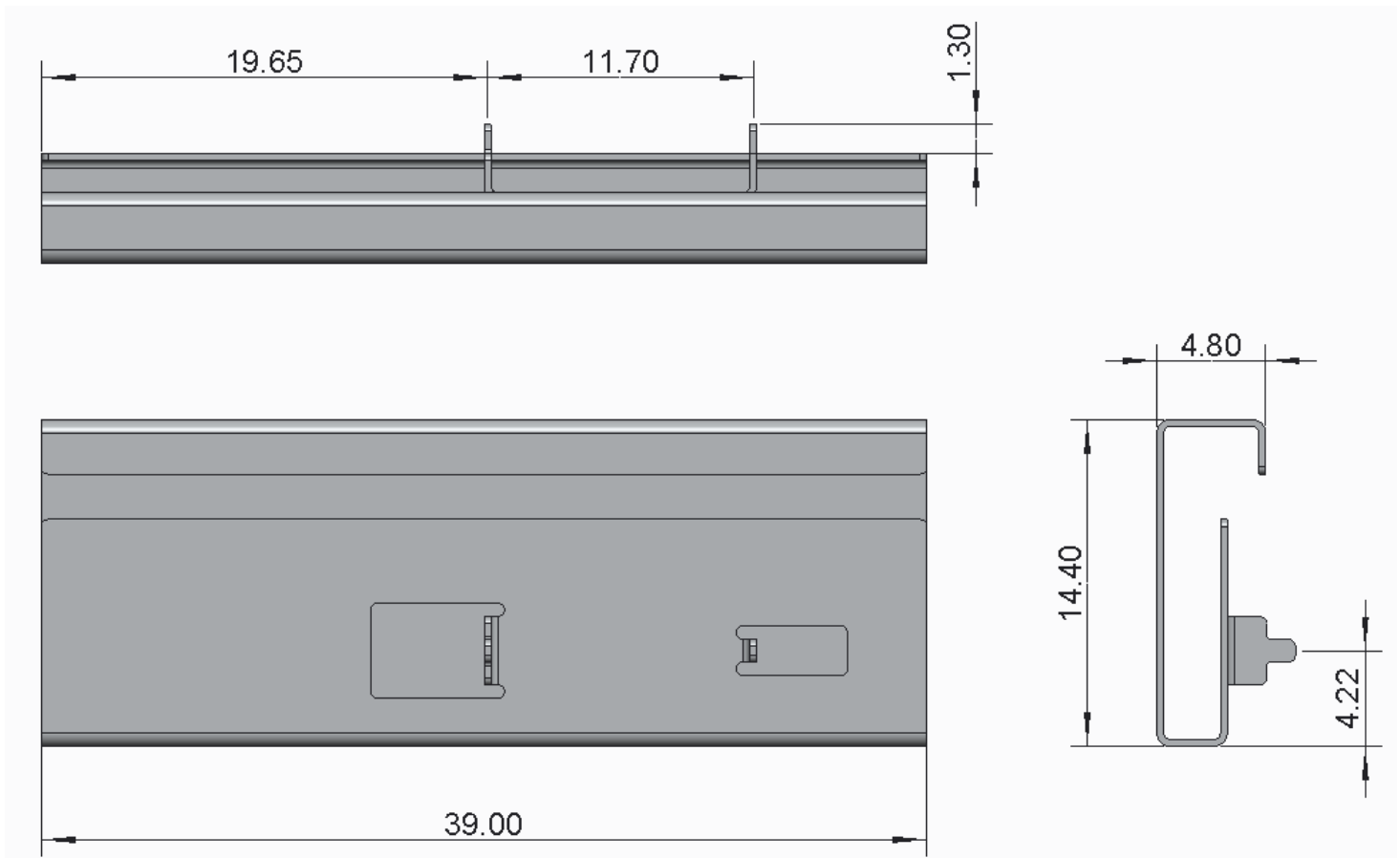
**MECHANICAL SPECIFICATIONS**

Overall Size	39 x 14.4 x 4.8 mm
Weight	3 g
Antenna Material	Ni-Plated Stainless Steel

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-30 to +85° C
Storage Temperature	-30 to +85° C
RoHS Compliant	Yes

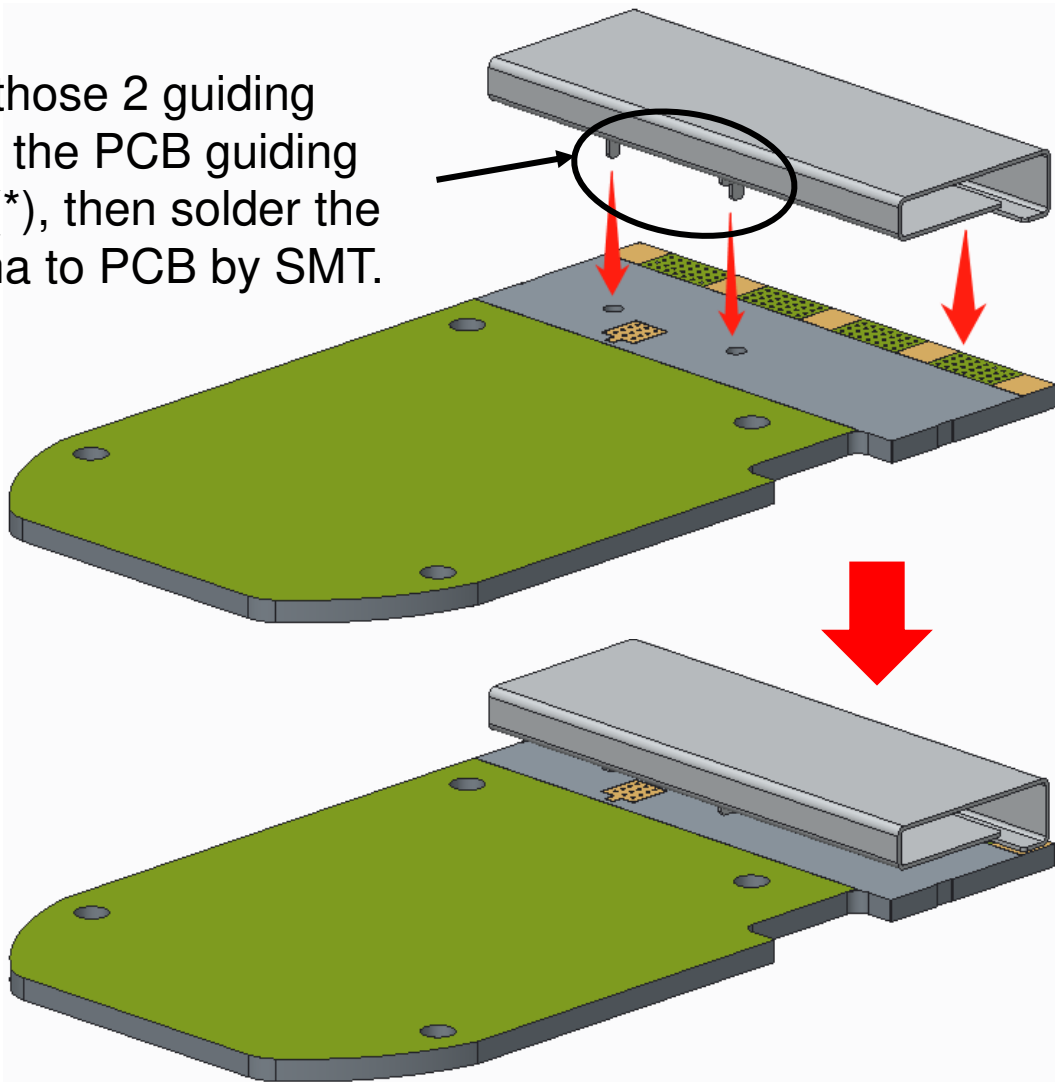
## MECHANICAL DRAWING



All dimensions are in mm.

## ASSEMBLY INSTRUCTIONS

Insert those 2 guiding pins to the PCB guiding holes (\*), then solder the antenna to PCB by SMT.



\* The 2 guiding holes on PCB must be non plated holes without any metal.

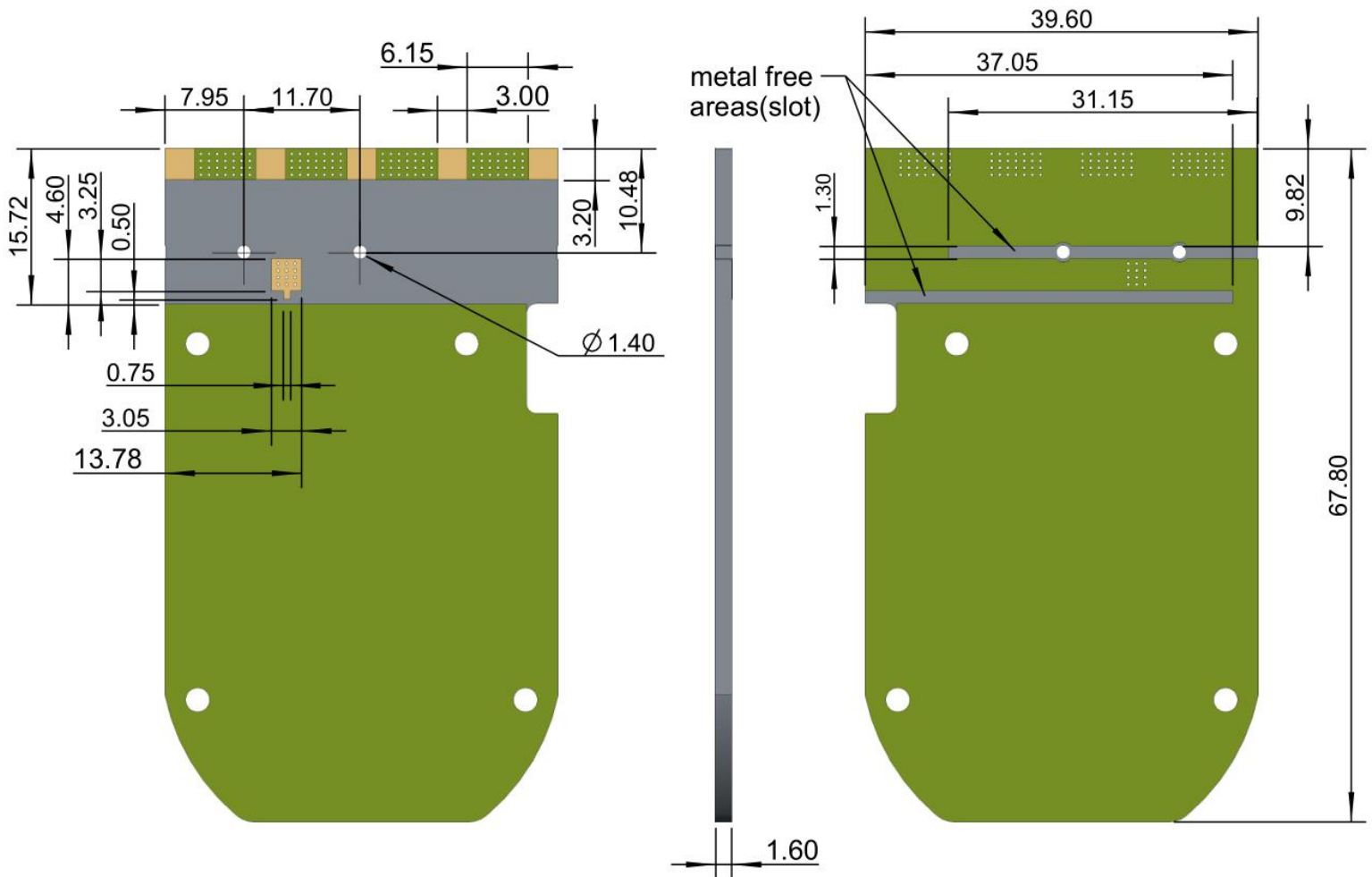
a YAGEO company

Series: EMBEDDED SMT

Description: 868-920MHz SMT PIFA

PART NUMBER: W3403

### Antenna PAD LAYOUT DRAWING



All dimensions are in mm.

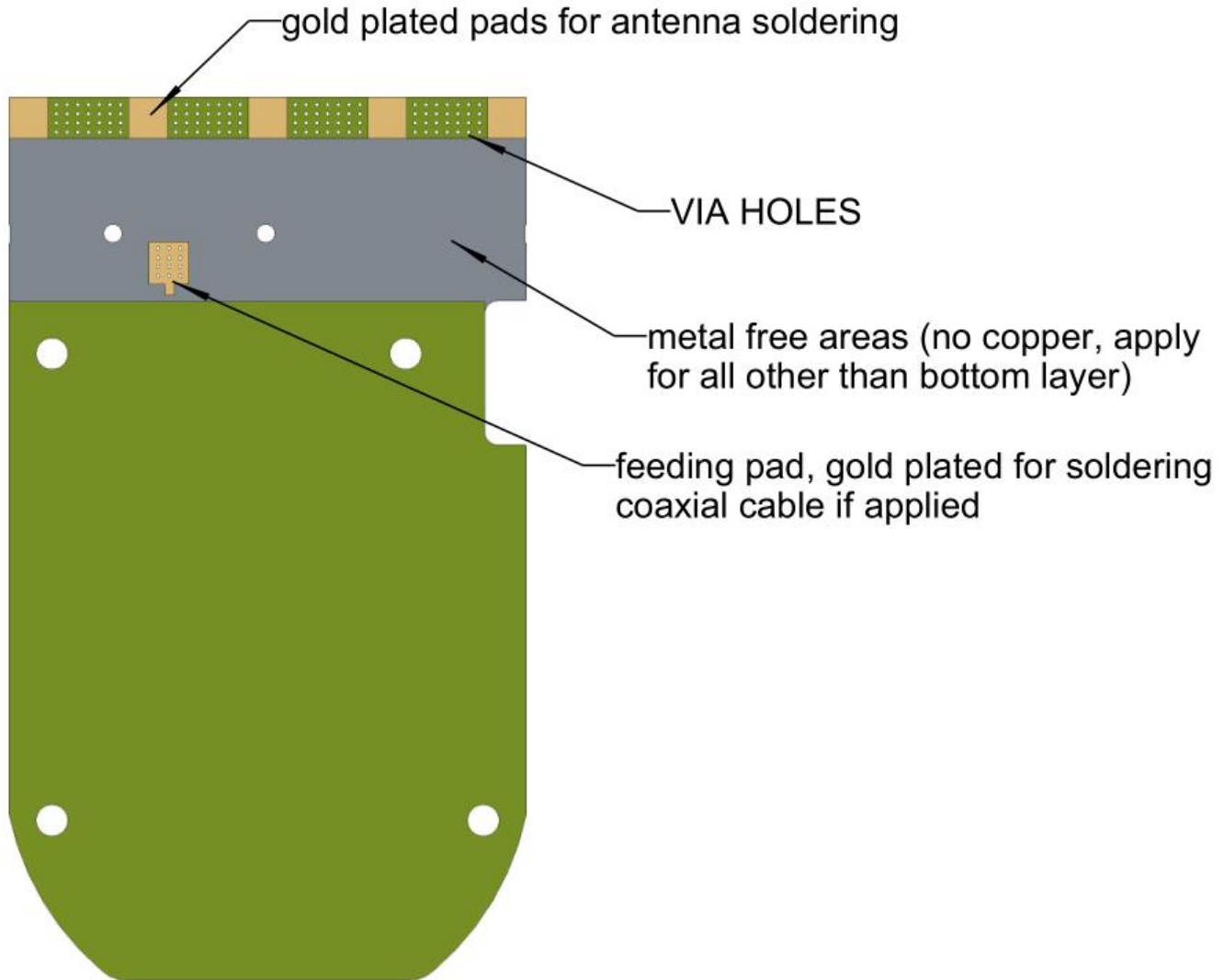
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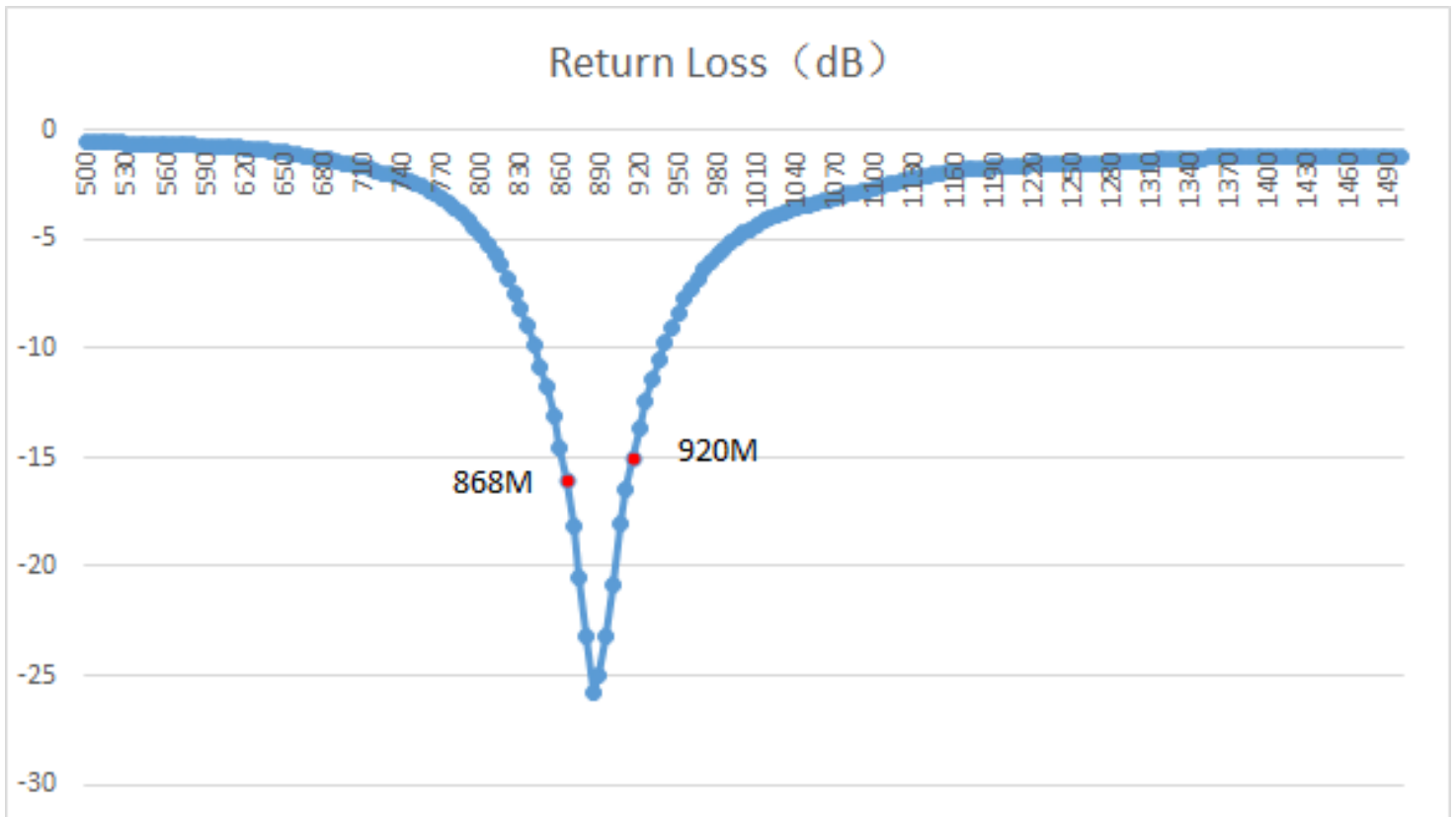
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## Antenna PAD LAYOUT DRAWING



## CHARTS



Test PCB size: 67.8mm\*39.6mm

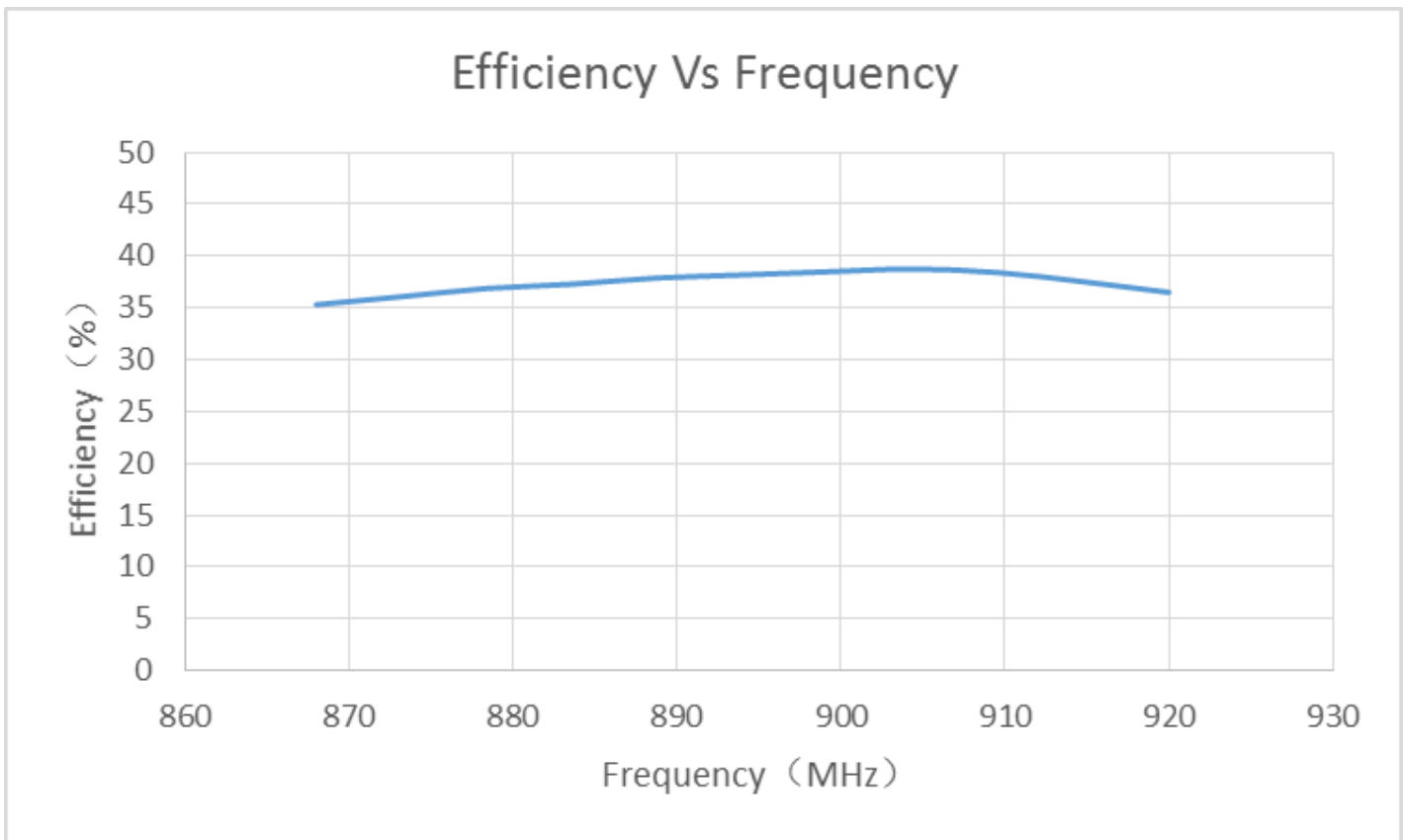
a YAGEO company

Series: EMBEDDED SMT

Description: 868-920MHz SMT PIFA

PART NUMBER: W3403

## CHARTS



Test PCB size: 67.8mm\*39.6mm

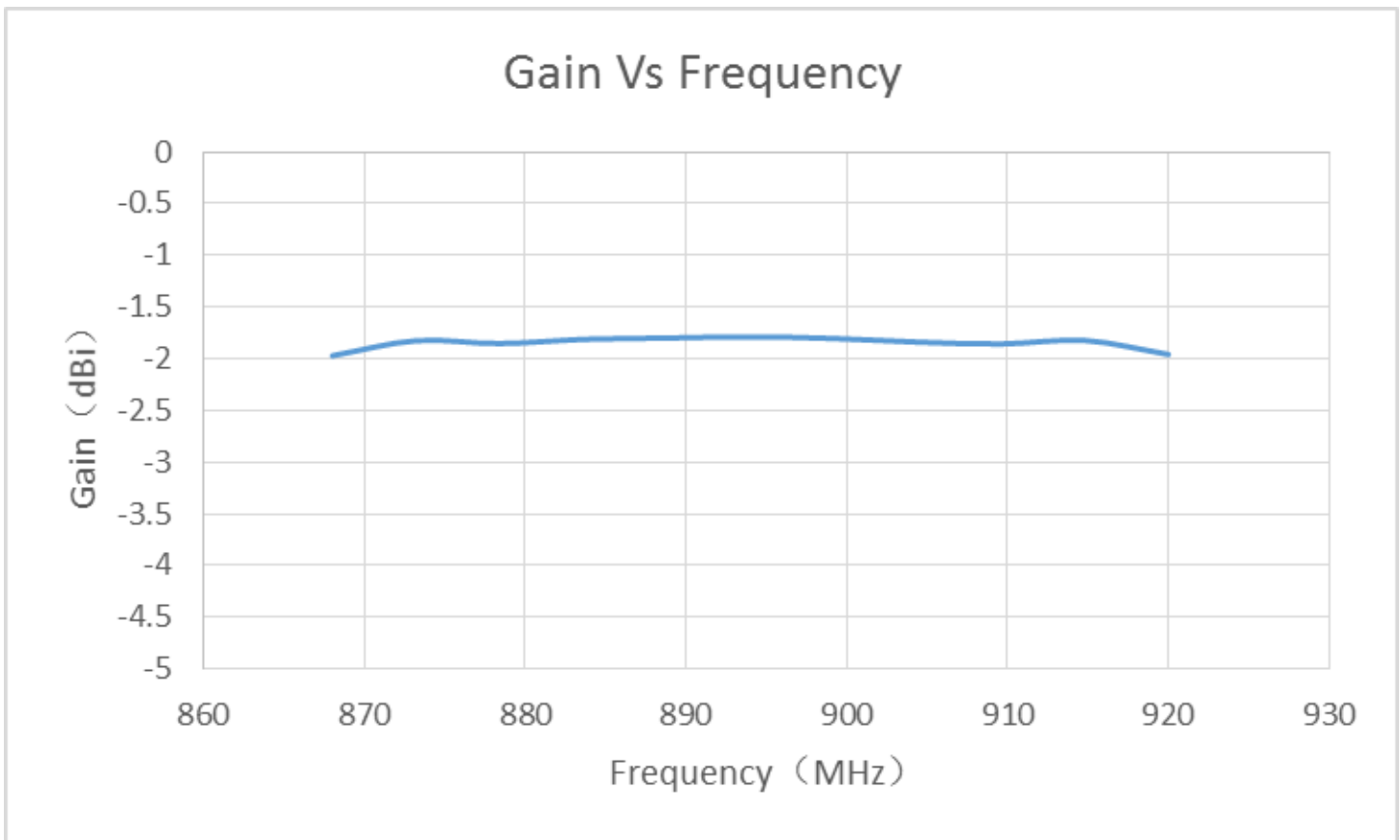
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**CHARTS**

Test PCB size: 67.8mm\*39.6mm

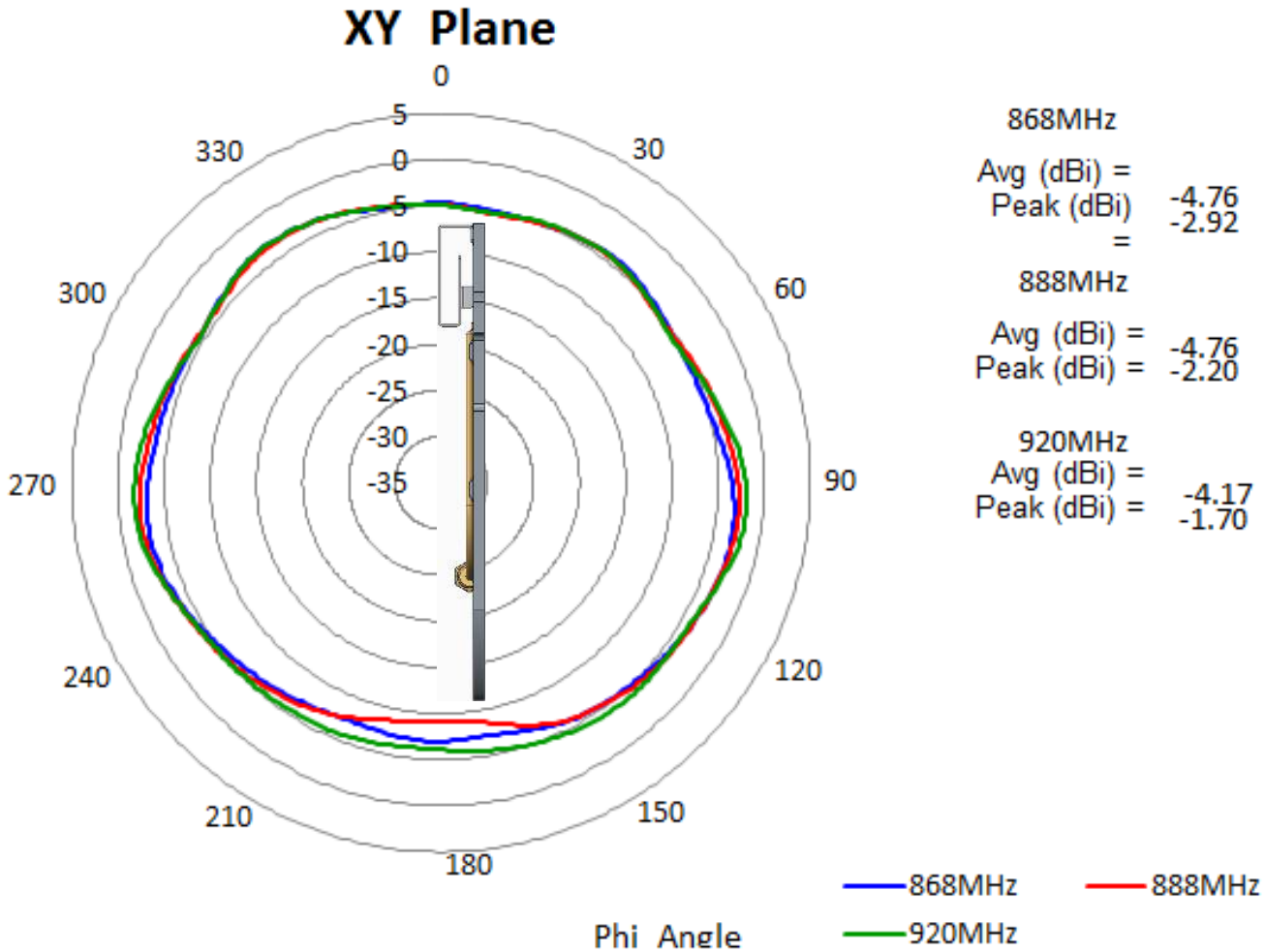
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## CHARTS



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a YAGEO company

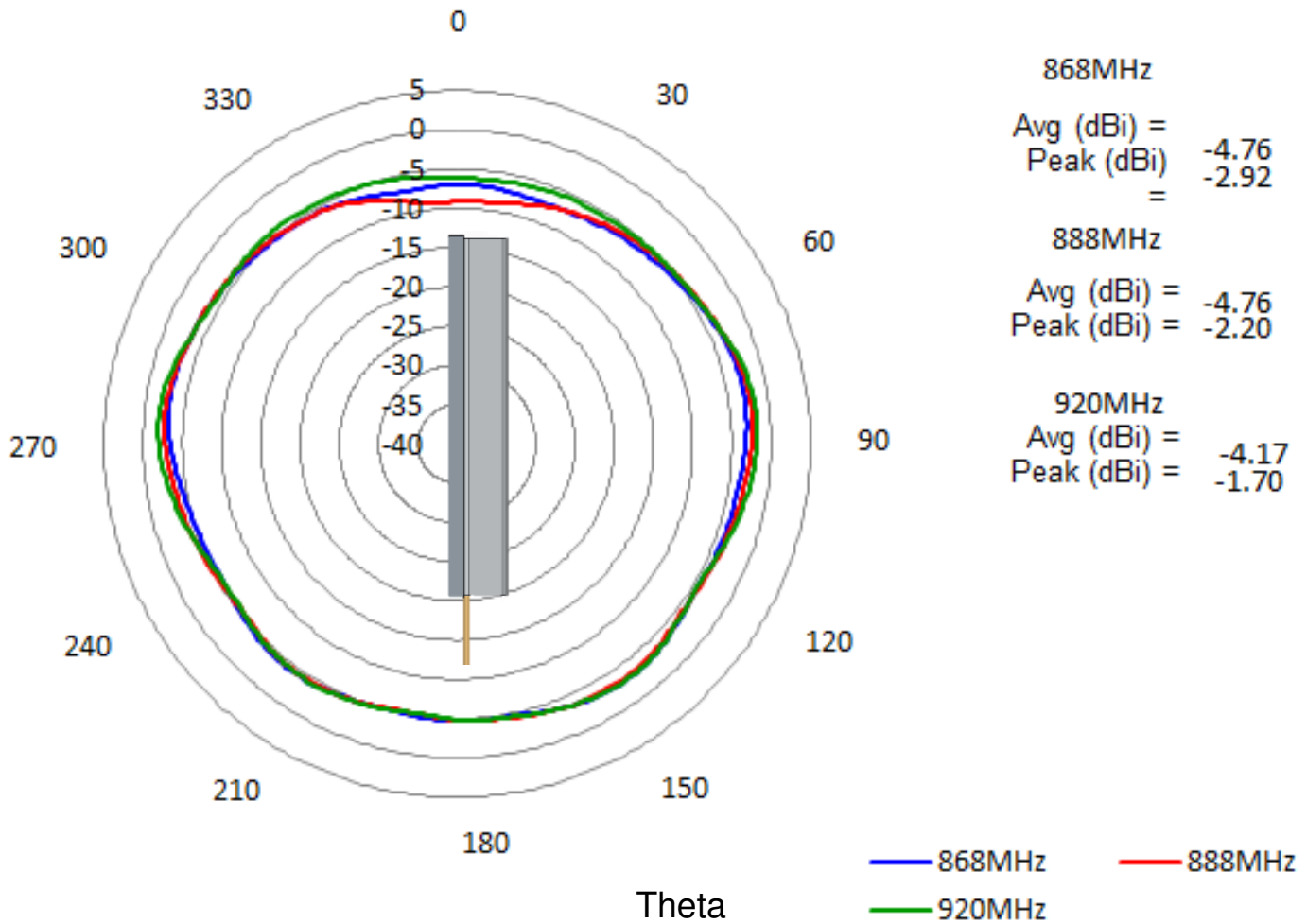
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## CHARTS

### XZ Plane



Test PCB size: 67.8mm\*39.6mm

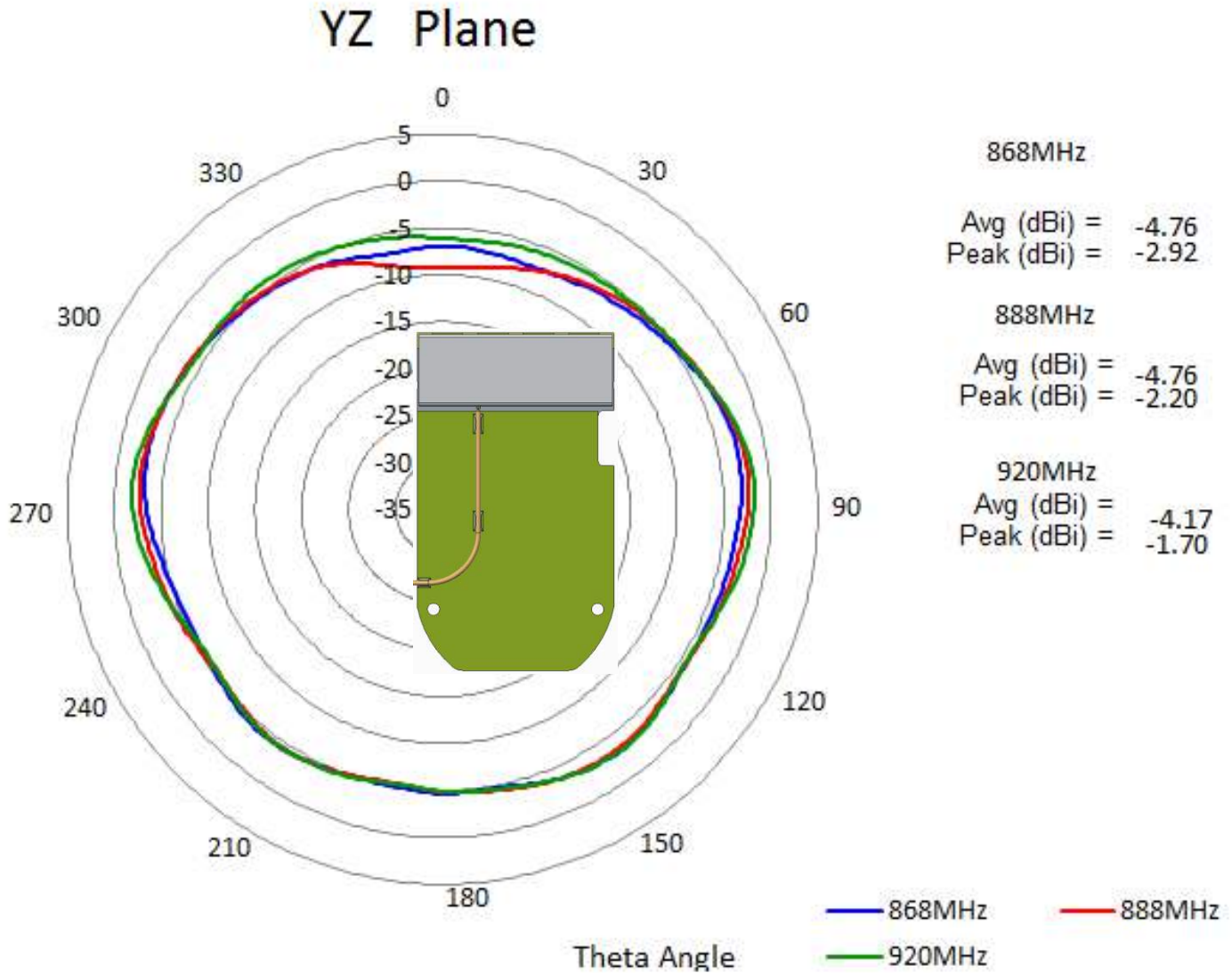
a YAGEO company

Series: EMBEDDED SMT

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## CHARTS



Test PCB size: 67.8mm\*39.6mm

## PACKAGING

450pcs / 13" Tape&Reel  
2 Tape&Reel / Box  
Total 900pcs antennas / Box

P.S.: 4.4Kg /Box

## ASSEMBLY

