



Features:

- 2400-2500MHz
- Gain 2dBi
- VSWR 2:1
- Various cable lengths
- Connector U.FL compatible
- Ingress Protection IP20
- RoHS Complaint

Applications:

- Indoor omnidirectional antenna
- ISM 2.4GHz radios
- Bluetooth, BLE, Zigbee
- WiFi 2.4-2.5GHz
- Direct cable connection to radio connector
- Swivel feature for optimized performance on all use cases

All dimensions are in mm / inches

Issue: 1904

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

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Series: Stick Antenna

Description: 2.4GHz Dipole Swivel Antenna
with coax feed + U.FL

PART NUMBER: W1049BXXX

ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	2.4-2.5GHz
Nominal Impedance	50 Ω
VSWR	2:1(MAX)
Radiation Pattern	Omni
Gain	2dBi (typical)
Efficiency	75% (typical)
Polarization	Linear-Vertical
Power Withstanding	2W

MECHANICAL SPECIFICATIONS

	Overall Length (mm/in)	Weight (g)	ANT Color	Connector Type	Cable Type	Cable Length (mm/in)
W1049B030	158.5/6.25	4.86	Black	I-PEX	MI-113	76/3
W1049B050	209.5/8.25	5.49	Black	I-PEX	MI-113	127/5
W1049B070	260.5/10.25	6.12	Black	I-PEX	MI-113	178/7
W1049B090	311.5/12.25	6.75	Black	I-PEX	MI-113	229/9
W1049B120	387.5/15.25	7.70	Black	I-PEX	MI-113	305/12

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85° C
Storage Temperature	-40 ~ +85° C
Ingress Protection	IP20, Indoor use
RoHS Compliant	Yes

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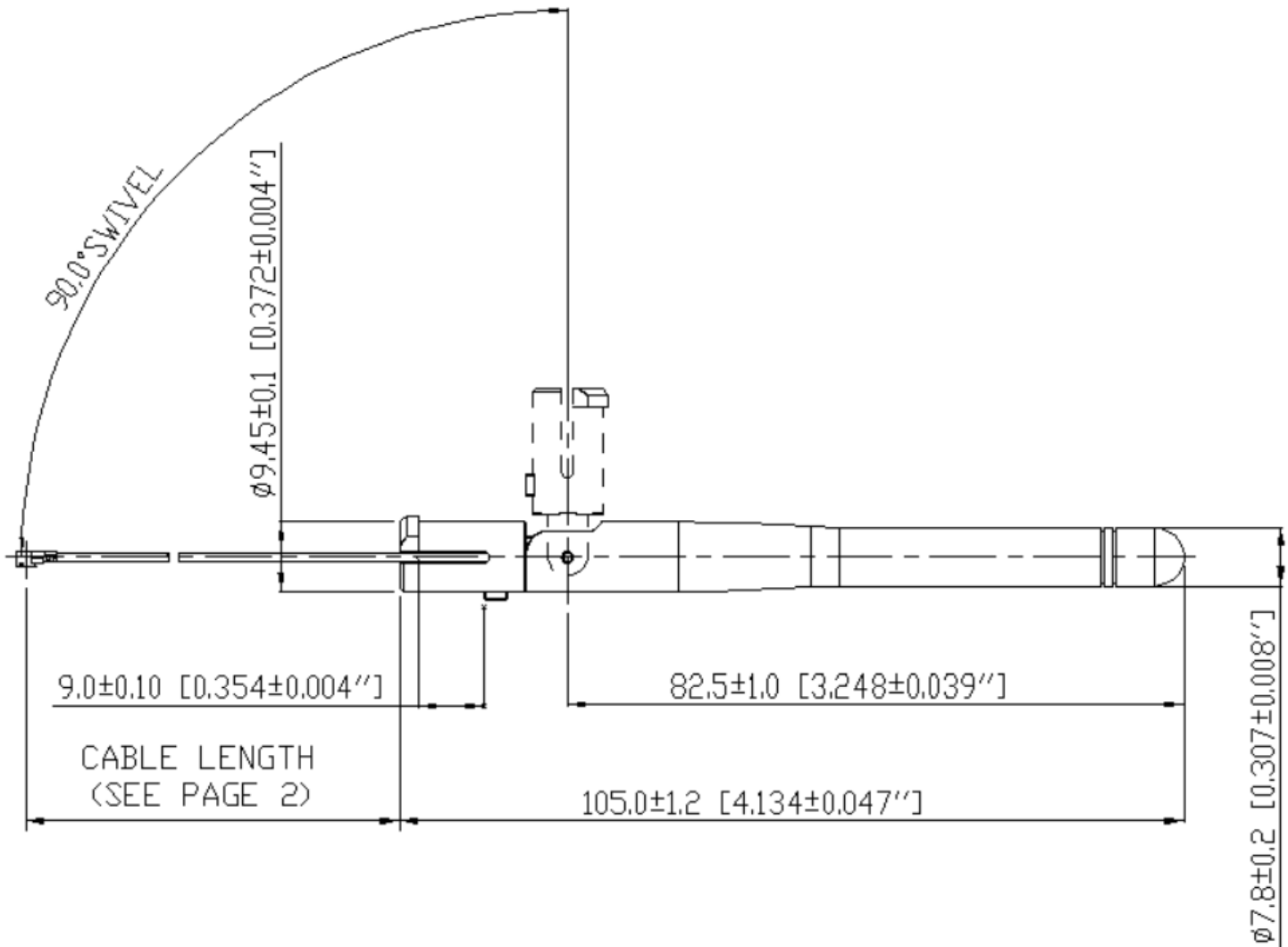
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MECHANICAL DRAWING



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TEST SETUP

SETUP1 - 0°



SETUP2 - 90°



Test in free space without ground plane.

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CHARTS

VSWR vs Frequency



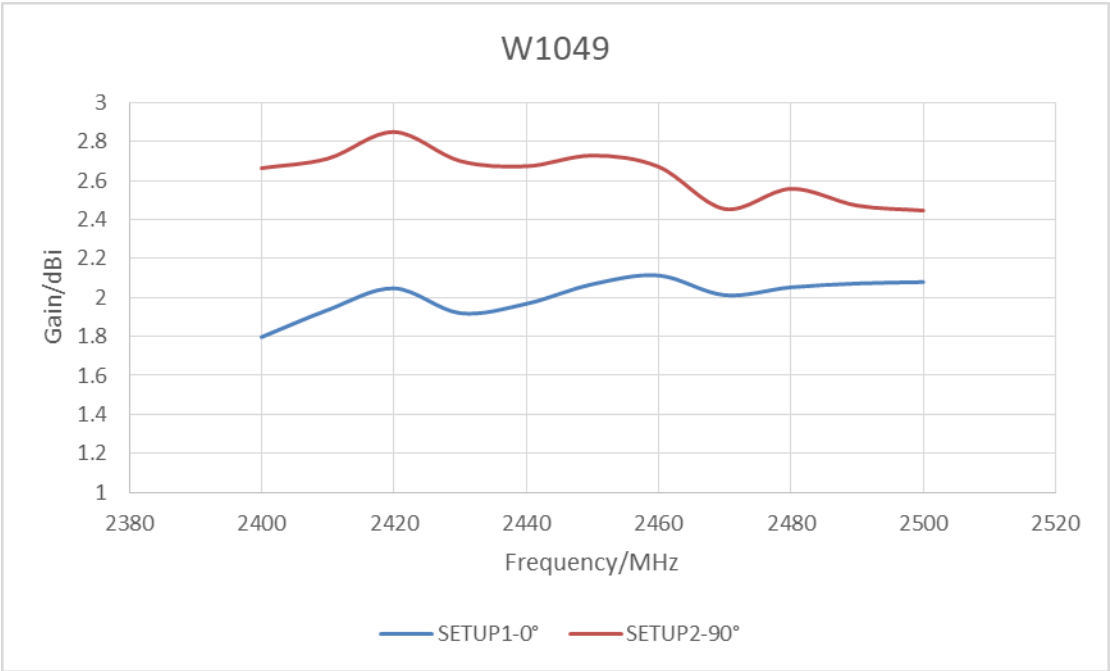
Description: 2.4GHz Dipole Swivel Antenna with coax feed + U.FL

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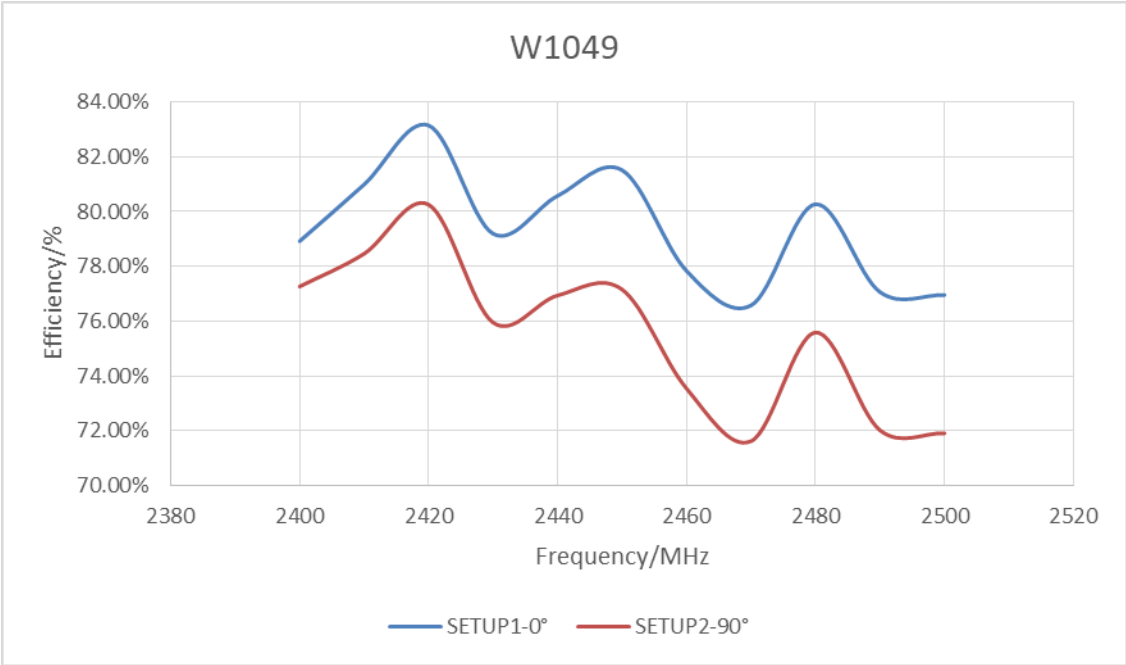
Series: Stick Antenna

CHARTS

Peaking Gain



Radiation Efficiency



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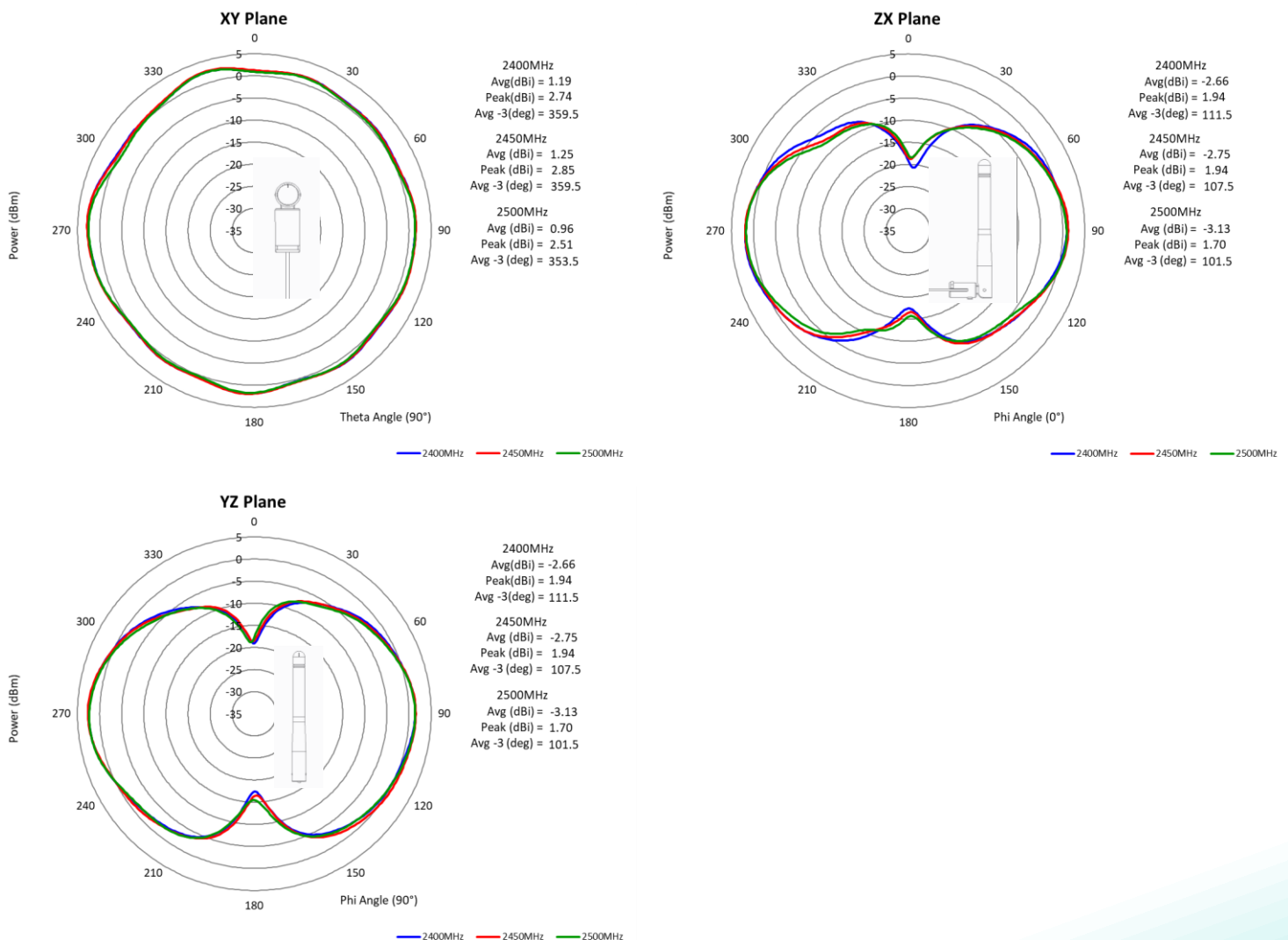
Series: Stick Antenna

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CHARTS

SETUP2-90° Radiation pattern (2D) /2400-2500MHz



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PACKAGING

Quantity: 1200 PCS per Box**Packaging Steps:**

1. Place 20pcs products into PE bag
2. Apply HF & RoHS label onto PE bag and seal bag.

Series: Stick Antenna

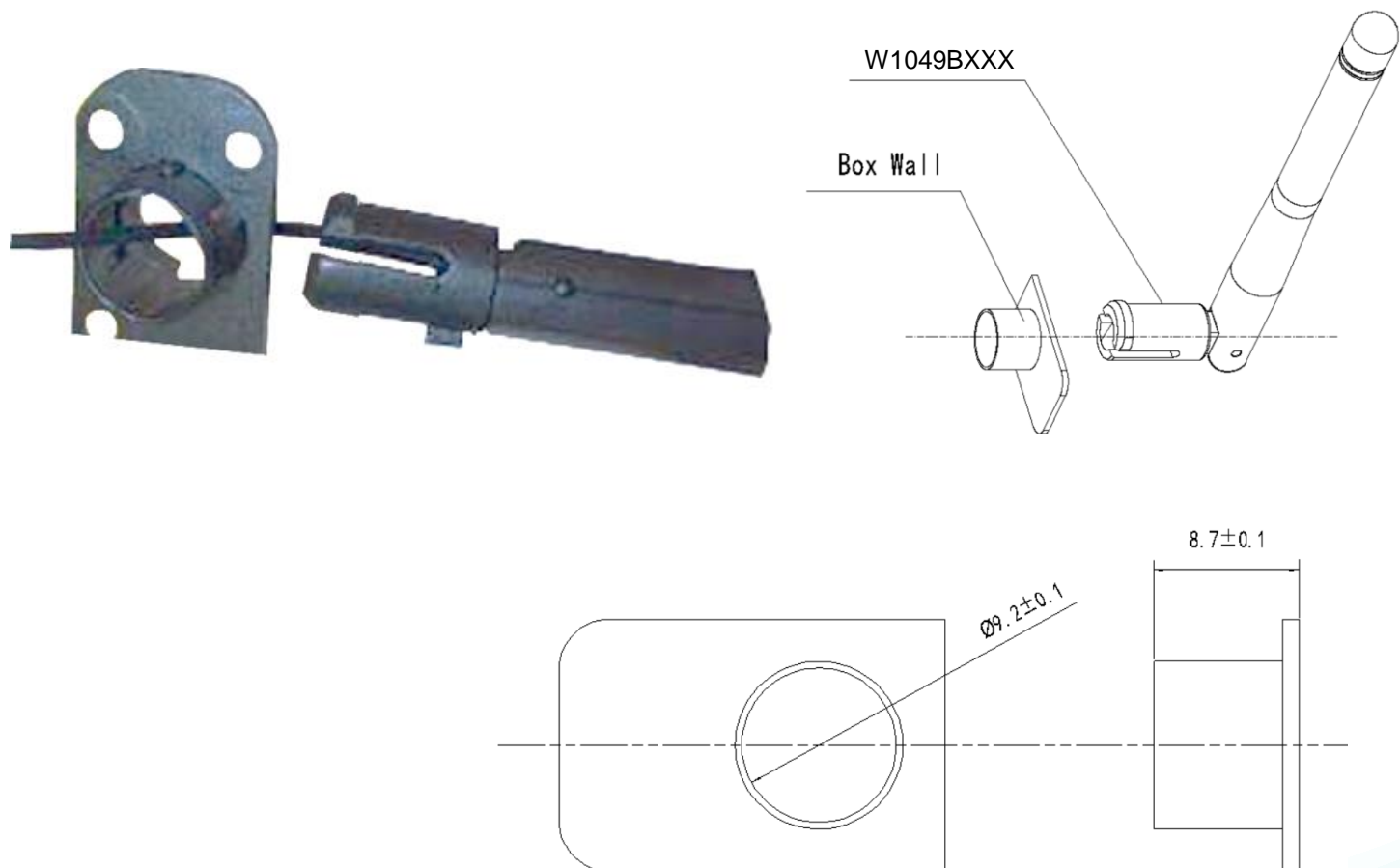
Description: 2.4GHz Dipole Swivel Antenna
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ASSEMBLY

The antenna has two kinds of mounting method

Option 1. If the box wall has the support structure as below, the antenna just directly insert into the hole of the box wall. The suggestion hole size is shown in the drawing.



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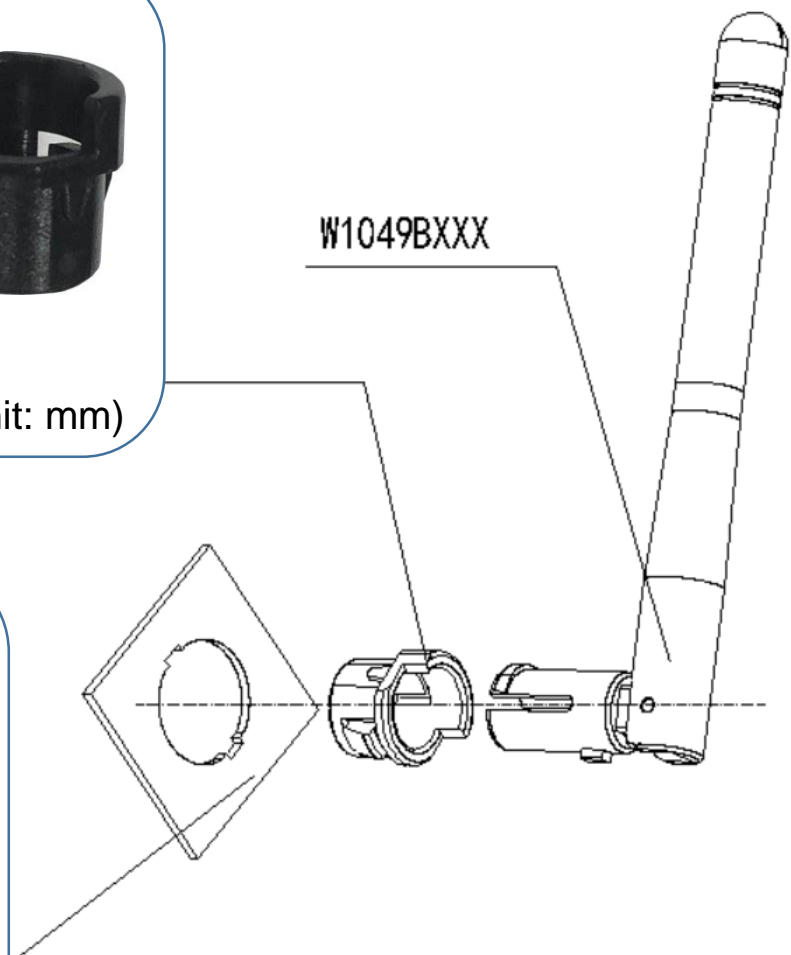
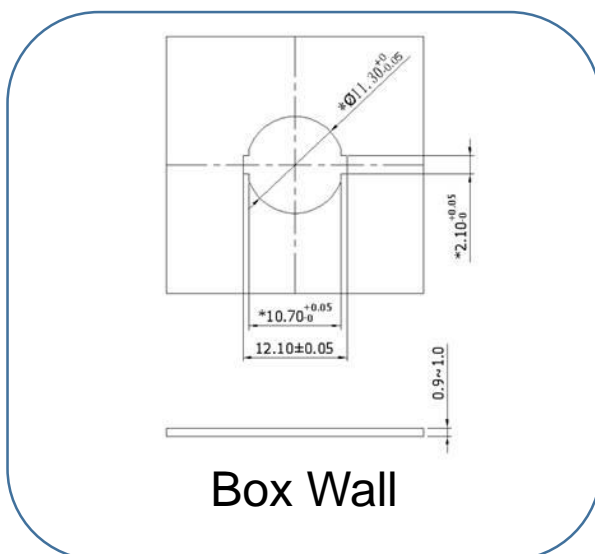
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Option 2. If the box wall is flat wall. We should install the plastic mounting grommet we provide into the hole of the box wall firstly, then install the antenna. The suggestion hole size and wall thickness are below.



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