

**Description: 2400-2500/4900-5925MHz Swivel
WiFi Antenna with coax feed**

Series: STICK ANTENNA

PART NUMBER: W1039B030



Antenna



Mounting grommet,
supplied with Antenna

Features:

- Frequency:
 - 2400-2500/4900-5925MHz
- VSWR: 2:1
- Gain: 1 dBi / 2 dBi
- Efficiency: 60% / 50 %
- Length 88 mm (90 deg bent)
- 76 mm coax with U.FL
- RoHS Compliant

Applications:

- 2.4GHz and 5GHz radios
- Indoor use
- WiFi, Bluetooth, Zigbee
- Routers, Gateways, Data terminals
- IoT
- Automation, security

All dimensions are in mm / inches

Issue: 1904

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole Antenna
Frequency	2400-2500MHz/4900-5925MHz
Nominal Impedance	50 Ω
VSWR	2:1(MAX)
Radiation Pattern	Omni
Gain	>1dBi / >2dBi
Efficiency	>60% / > 50%
Polarization	Vertical
Power Withstanding	2 W

MECHANICAL SPECIFICATIONS

Overall Length	181.3 mm
Weight	7.46 g
Antenna Color / Material	TPEE63D / Black
Connector type	Similar with U.FL
Cable type	Φ 1.13mm coaxial cable
Cable length	76 mm

ENVIRONMENTAL SPECIFICATIONS

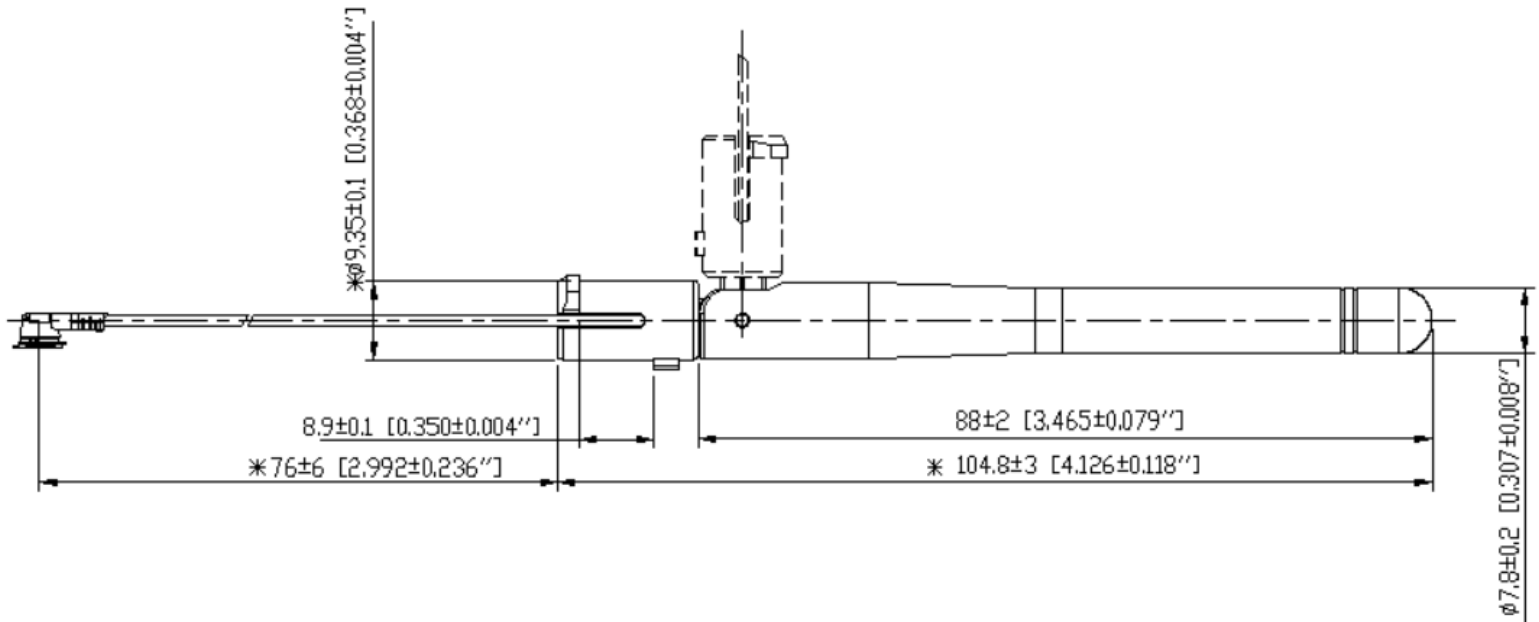
Operating Temperature	-20 ~ +70 ° C
Storage Temperature	-30 ~ +80 ° C
Ingress protection Rating	IP 20 Indoor use
RoHS Compliant	Yes

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MECHANICAL DRAWING



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TEST SETUP

SETUP1:



SETUP2:



Note: Free space radiation pattern is tested only in SETUP1.

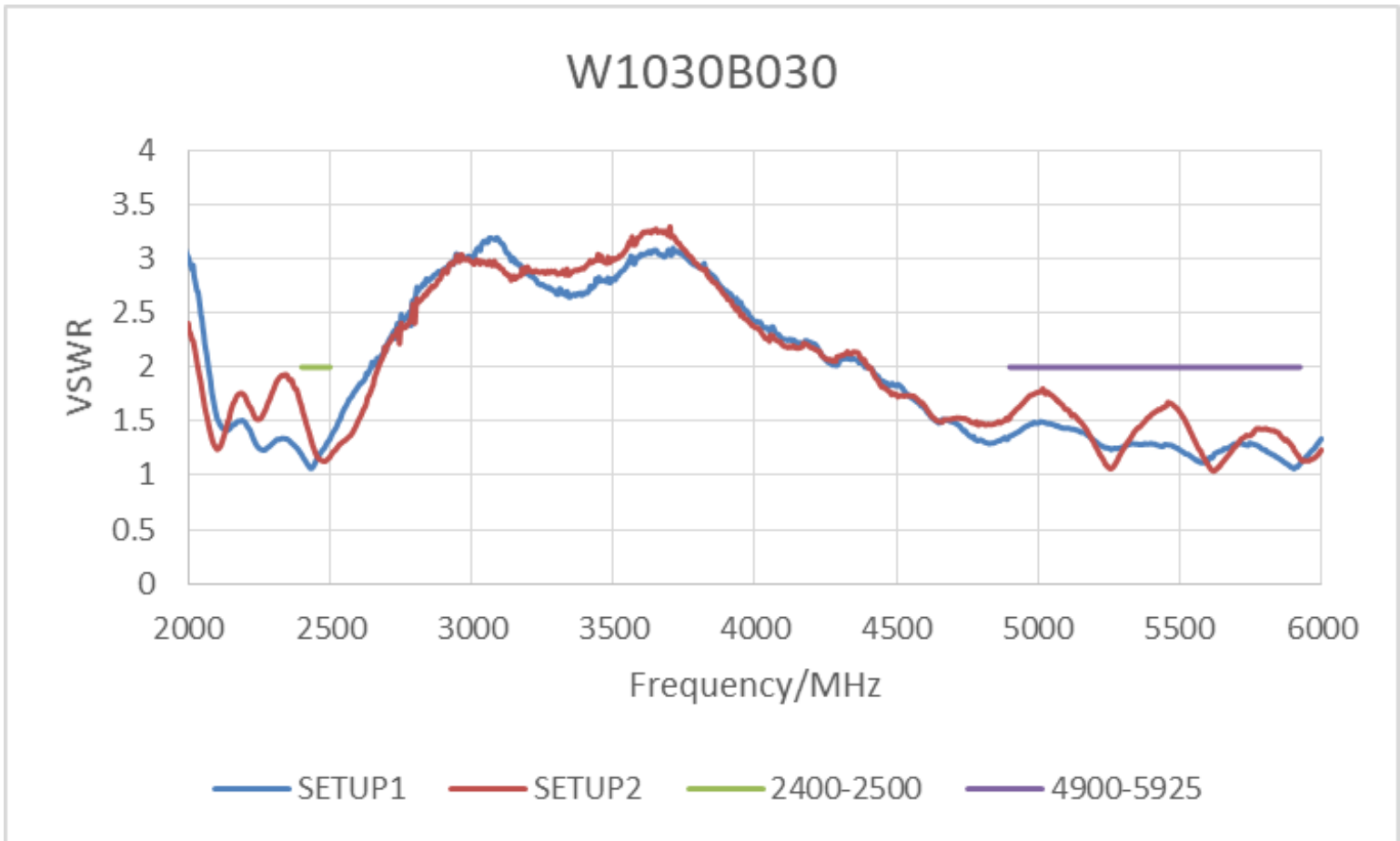
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CHARTS

Voltage standing-wave ratio



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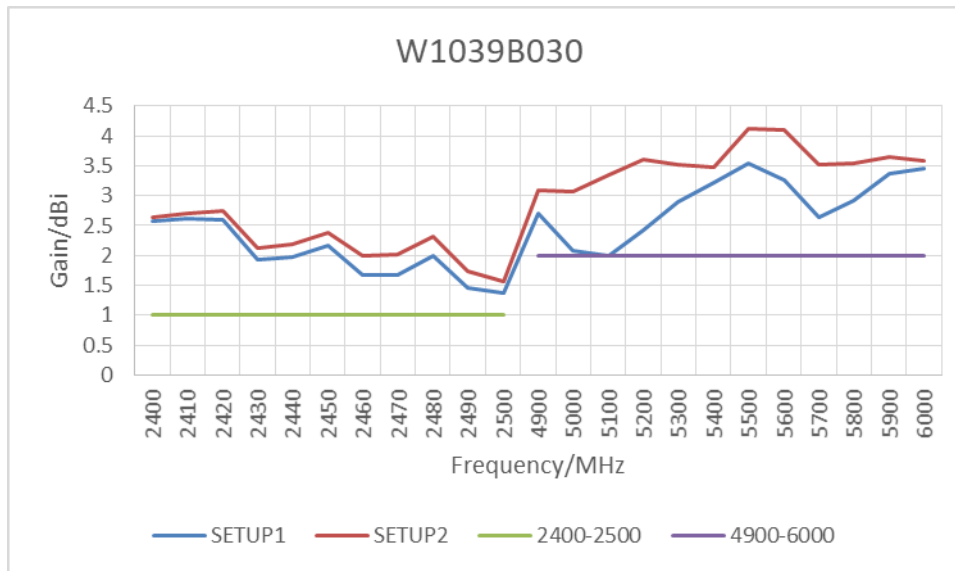
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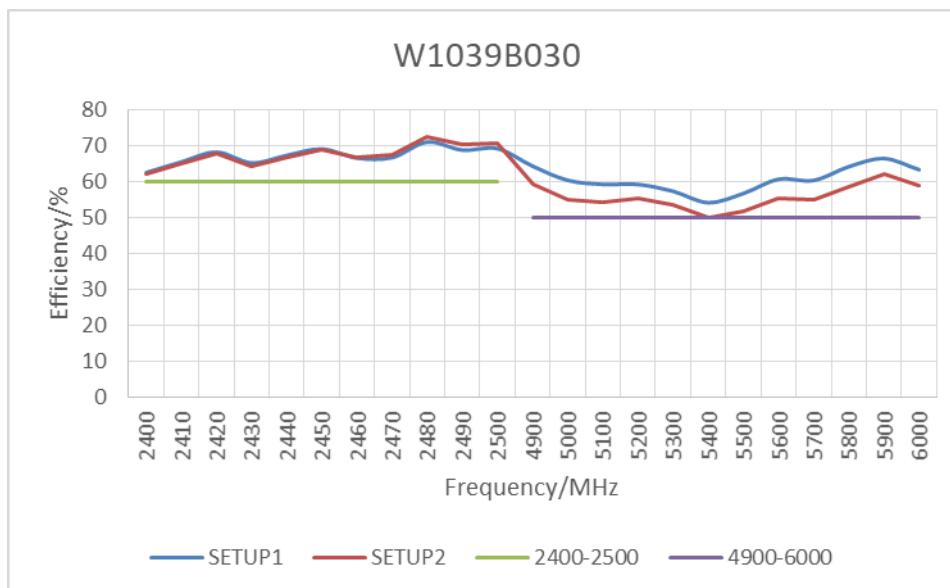
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CHARTS

Peaking Gain



Radiation Efficiency



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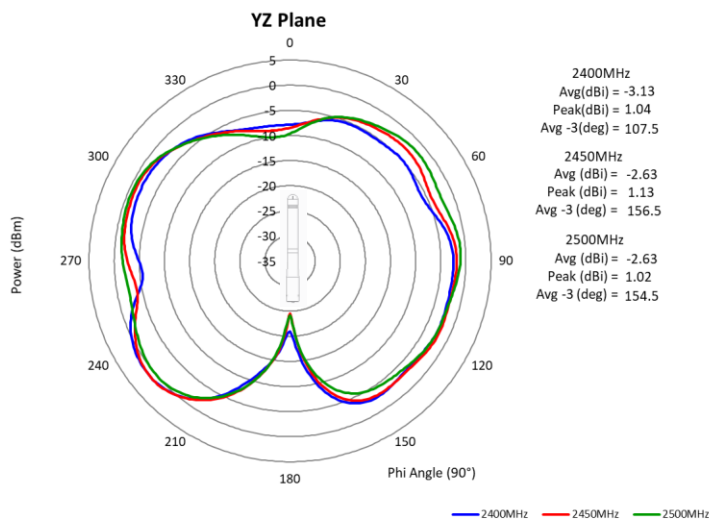
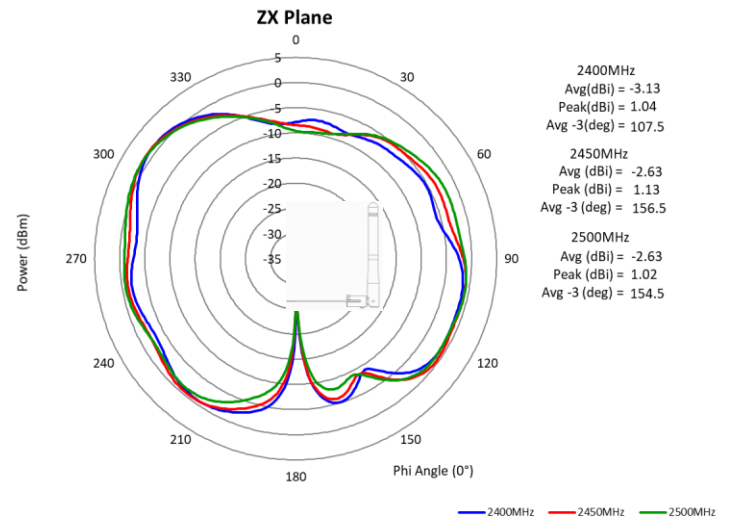
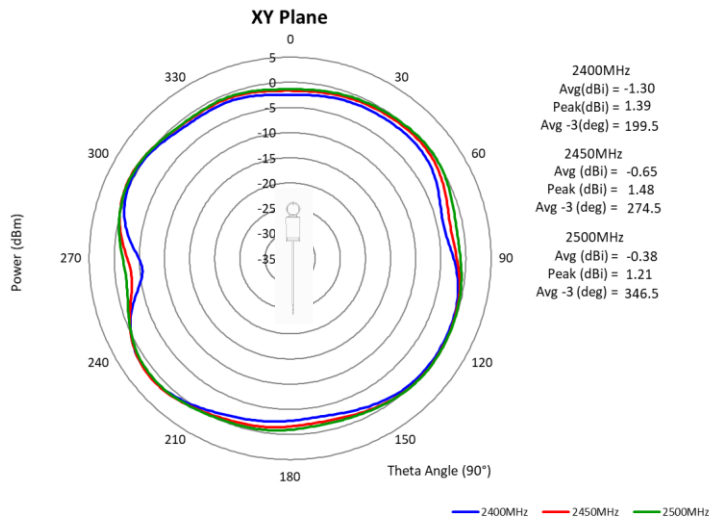
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CHARTS

Free space Radiation Patterns/2400-2500MHz



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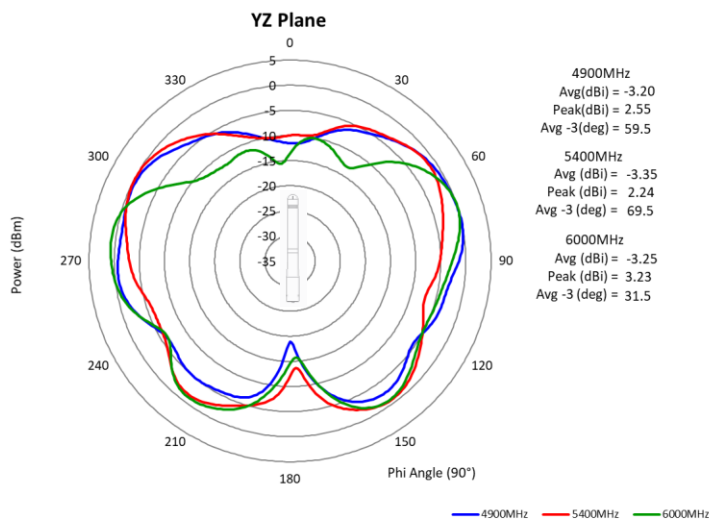
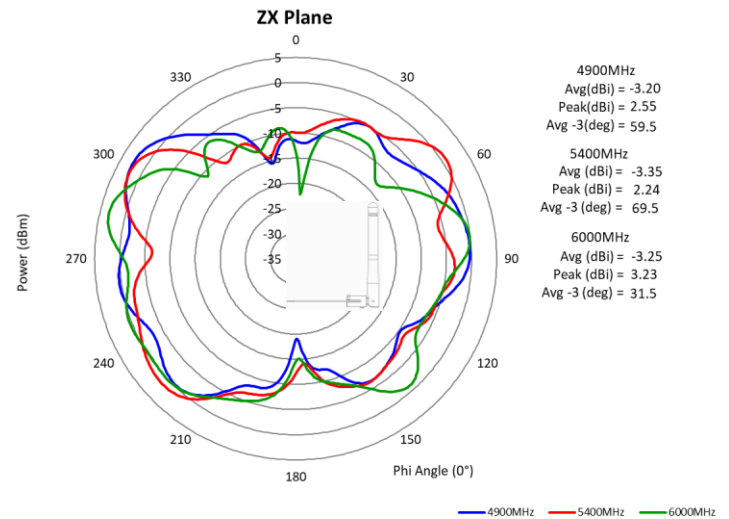
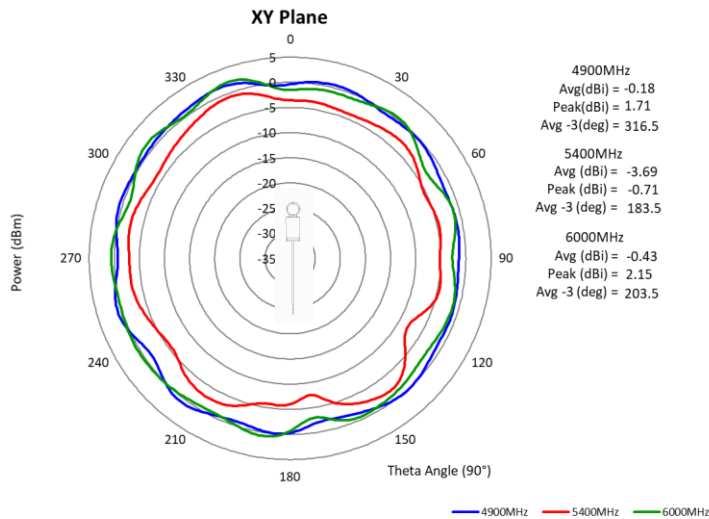
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CHARTS

Free space Radiation Patterns/4900-6000MHz



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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.

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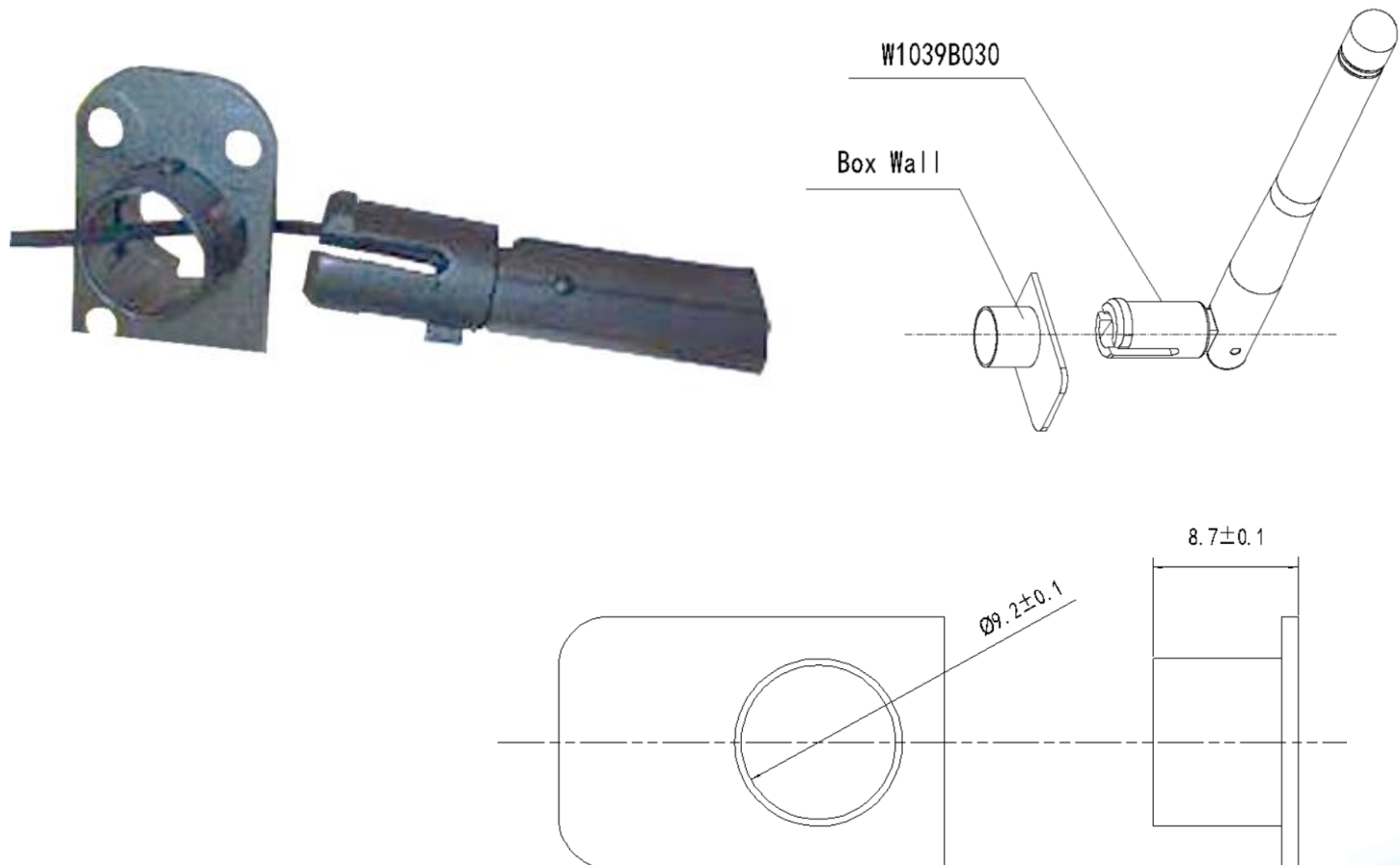
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ASSEMBLY

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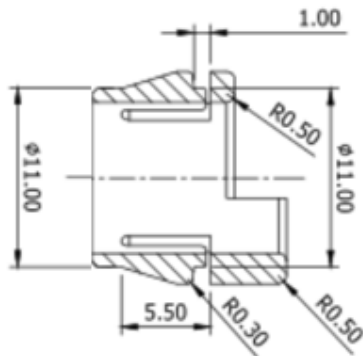
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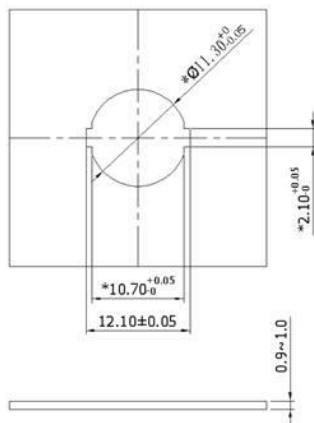
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Option 2. If the box wall is flat wall. We should install the plastic mounting grommet we provide into the hole of the box wall firstly, then install the antenna. The suggestion hole size and wall thickness are below.

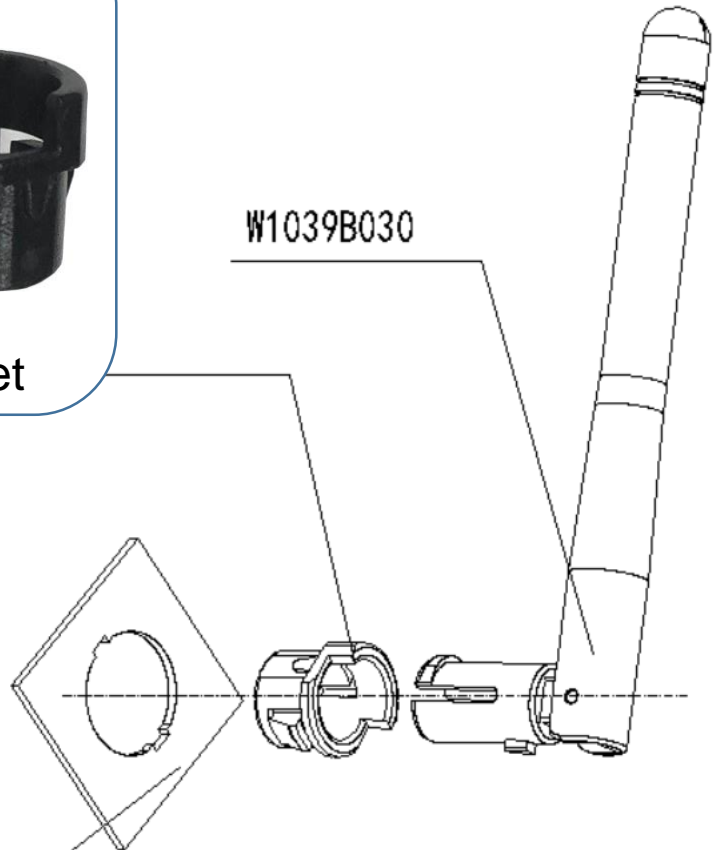


Plastic Mounting Grommet



Box Wall

W1039B030



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