

Description: 2.4GHz Dipole Swivel Antenna
with coax feed + U.FL**PART NUMBER: W1049BXXX****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: 2103

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

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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	Omn
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)	Remark
W1049B030	158.5/6.25	4.86	Black	I-PEX	MI-113	76/3	
W1049B030D	158.5/6.25	4.86	Black	I-PEX	MI-113	76/3	Same as W1049B030, but no grommet
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

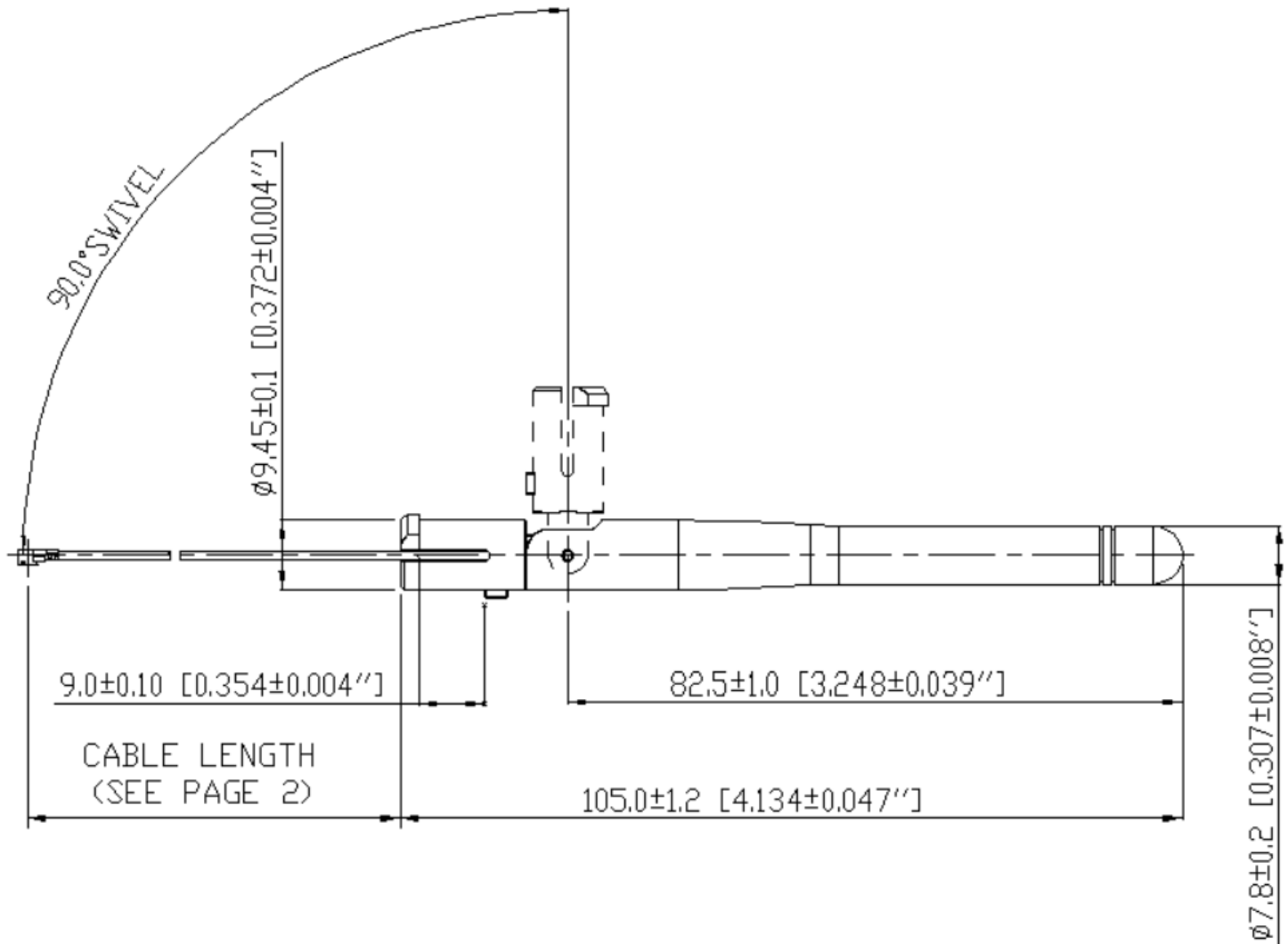
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MECHANICAL DRAWING



Description: 2.4GHz Dipole Swivel Antenna
with coax feed + U.FL**PART NUMBER: W1049BXXX****TEST SETUP****SETUP1 - 0°****SETUP2 - 90°**

Test in free space without ground plane.

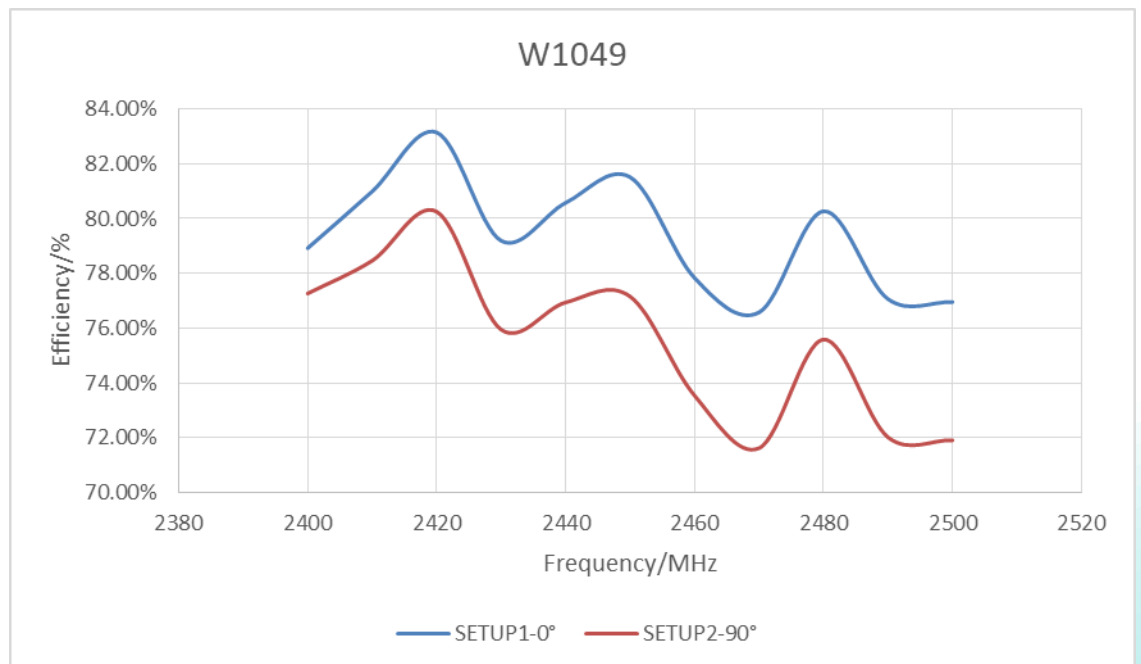
CHARTS**VSWR vs Frequency**

CHARTS

Peaking Gain



Radiation Efficiency



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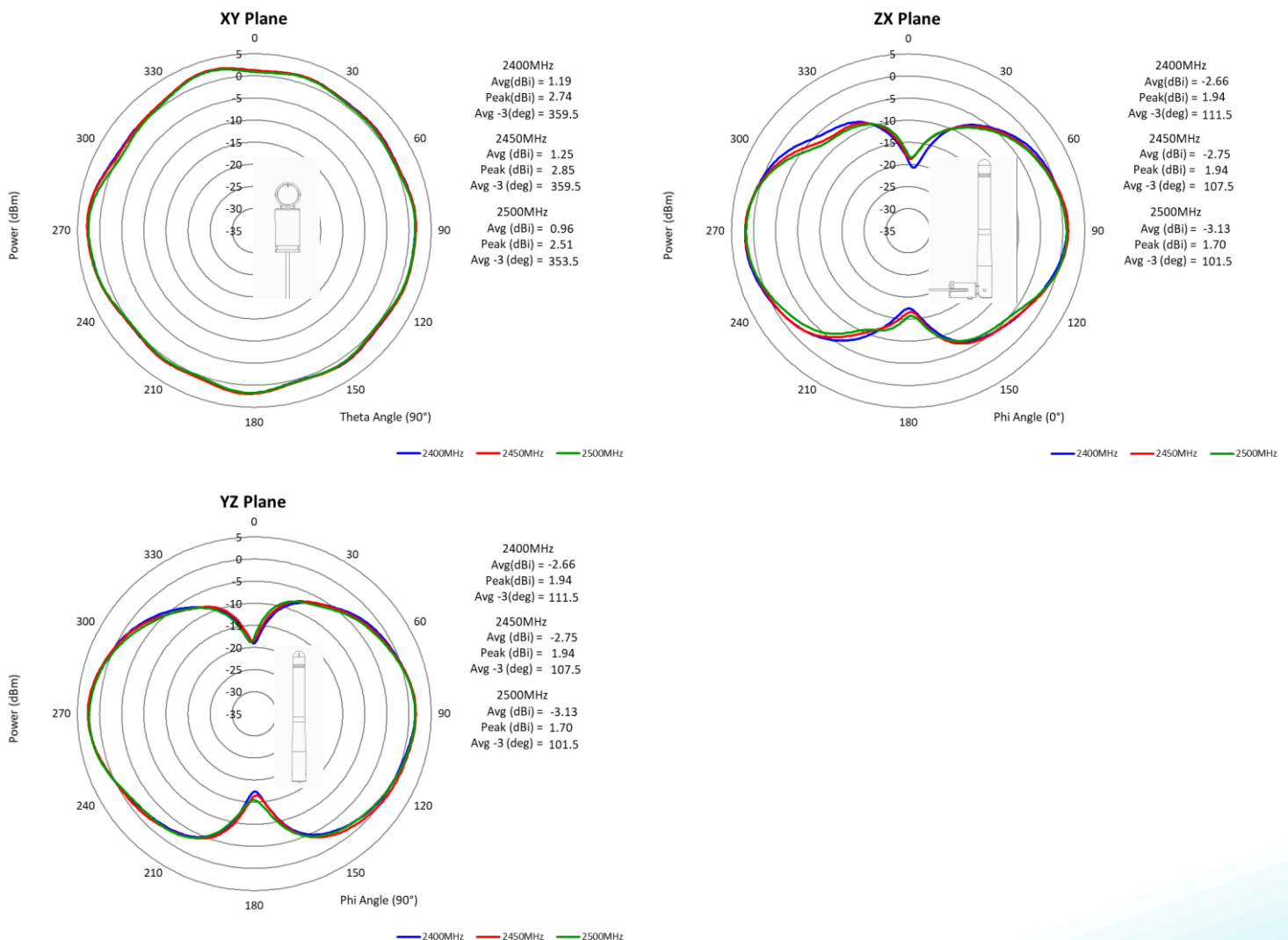
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CHARTS

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



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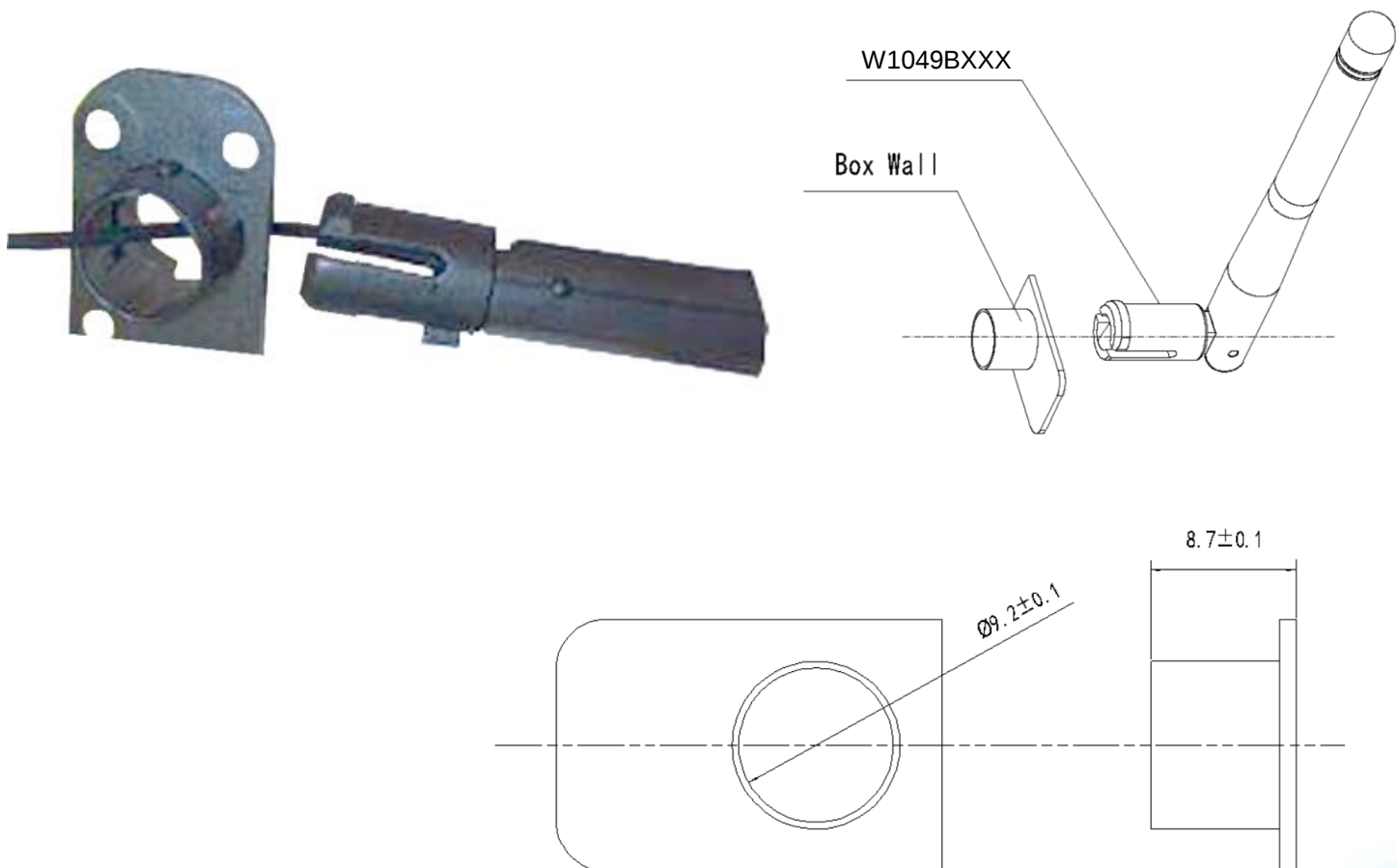
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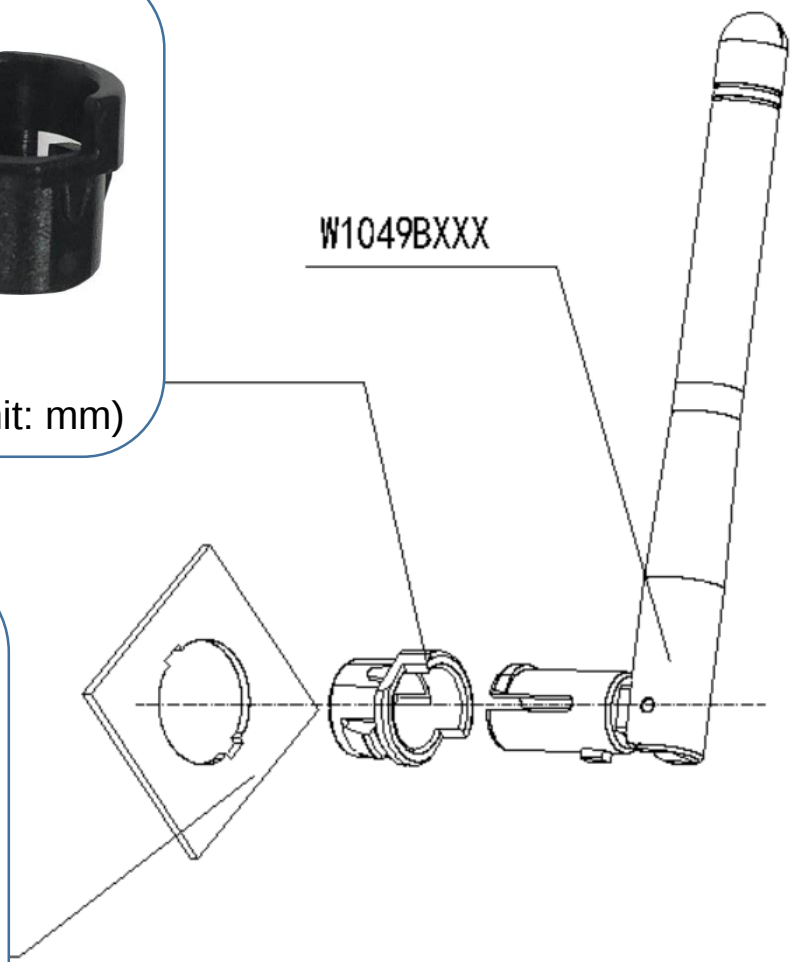
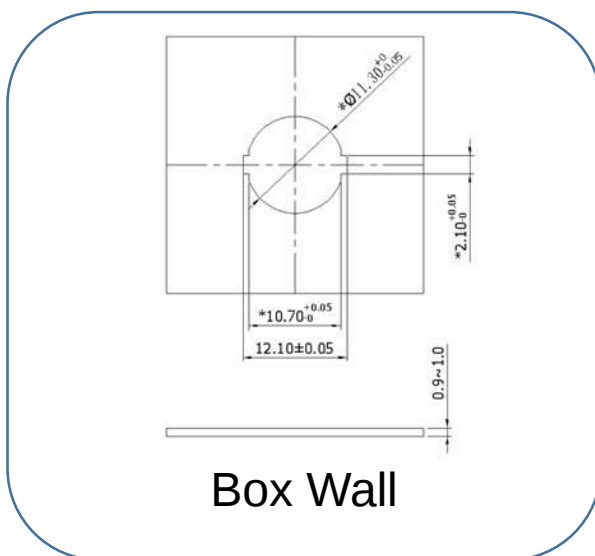
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Description: 2.4GHz Dipole Swivel Antenna
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1. Place 20pcs products into PE bag
2. Apply HF & RoHS label onto PE bag and seal bag.

Description: 2.4GHz Dipole Swivel Antenna
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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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