



NAN-P Series Internal WIFI Antennas

| <i>Page</i> | <i>Size (L x W)</i> | <i>Protocol</i> | <i>Coverage</i> | <i>NIC PN</i> |
|----------------|----------------------------|-----------------|-----------------|-------------------------|
| <i>Page 2</i> | 45 mm x 7mm 100mm Cable | WIFI | Dual Band | NAN-P2450-5400DBAX100BF |
| <i>Page 5</i> | 45mm x 7mm 150mm Cable | WIFI | Dual Band | NAN-P2450-5400DBAX150BF |
| <i>Page 8</i> | 36 mm x 14 mm | WIFI | Dual Band | NAN-P2450-5400DBBX100AF |
| <i>Page 11</i> | 36 mm x 7 mm | WIFI | Single Band | NAN-P2450SBAX100AF |



FEATURES

- Dual band Frequency
- Customizable cable length and type
- Rigid PCB Type
- RoHS compliant

APPLICATIONS

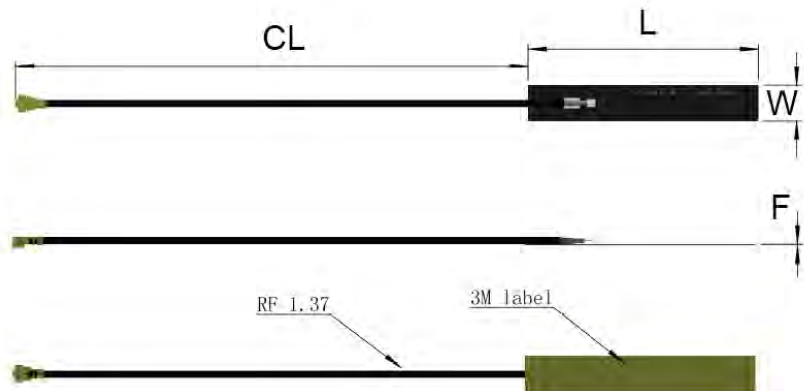
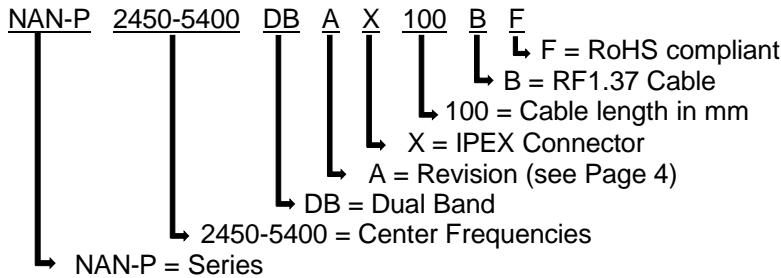
- Meters
- Routers
- Gateways
- Commercial / Handheld Electronics



RoHS Compliant
includes all homogeneous materials
(see part numbering system for details)

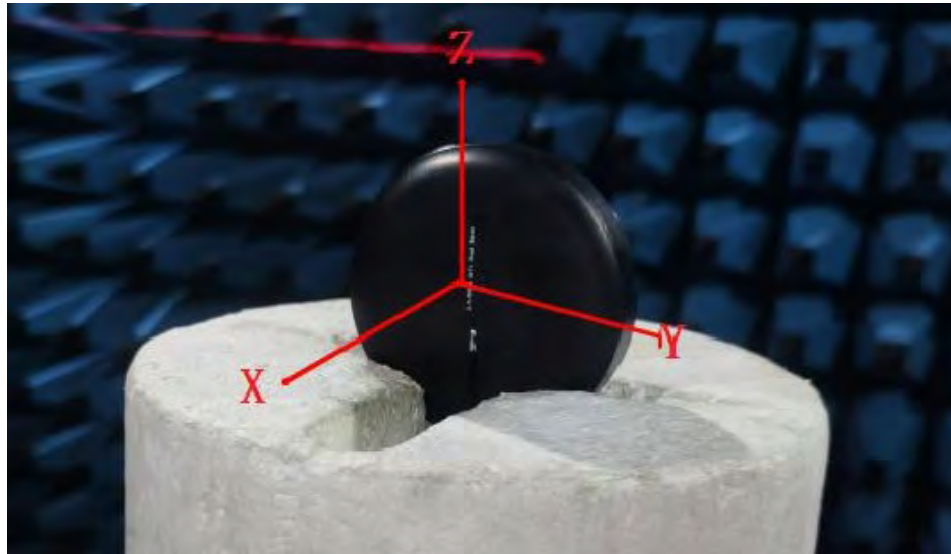
SPECIFICATIONS

| | |
|-------------------------|-----------------------------|
| Electrical | |
| Frequency Range | 2400~2483.5MHz/4900~5825MHz |
| Polarization | Linear |
| Gain | 3dBi |
| V.S.W.R | <2.0 |
| Impedance | 50Ω |
| Dimensions (mm): | |
| Body Length (L) | 45.0 ± 0.20 |
| Cable Length (CL) | 100 |
| Offset (F) | 0.25 ± 0.05 |
| Width (W) | 7.0 ± 0.20 |
| Connector Type | IPEX |
| Cable Type | RF1.37 |

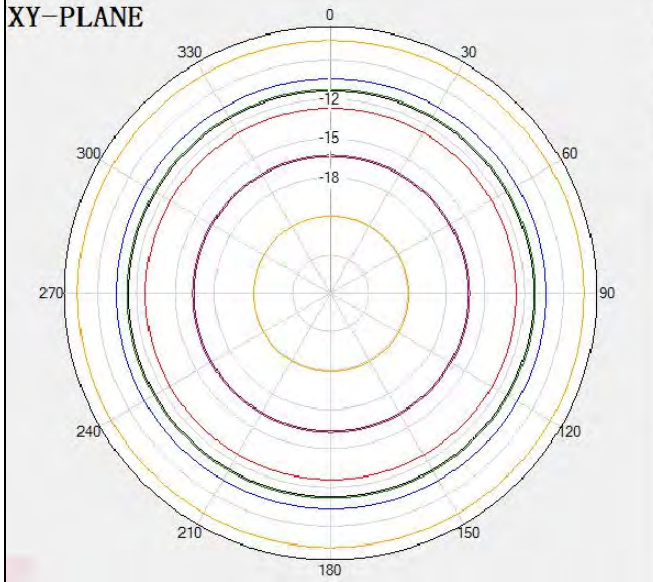


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|-----------------------|-----------------------------------|
| Environmental | |
| Operating Temperature | -40°C~+85°C |
| Vibration | 10 ~ 55Hz 1.5mm Amplitude 2 Hours |
| RoHS Compliant | Yes |

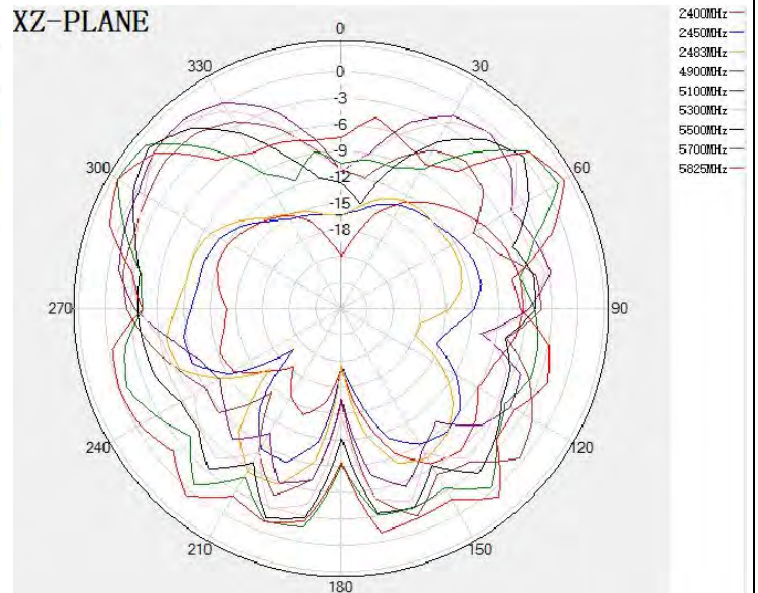
Radiation / Antenna Patterns:



XY-PLANE



XZ-PLANE



Revision History and Status

| Revision | Date Issued | Details | Status |
|----------|----------------------------|---|-----------|
| A | Nov 4 th , 2020 | Initial Release- Size = 45mm x 7mm x 0.25mm | Supported |
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- NIC Technical Support: tpmg@niccomp.com
- Compliance Support: rohs@niccomp.com

FEATURES

- Dual band Frequency
- Customizable cable length and type
- Rigid PCB Type
- RoHS compliant

APPLICATIONS

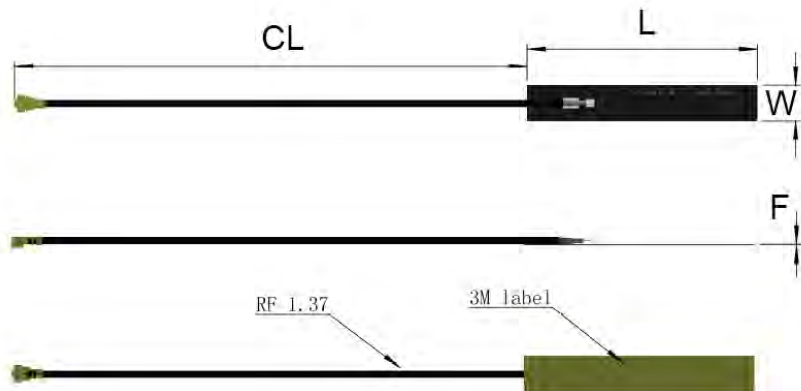
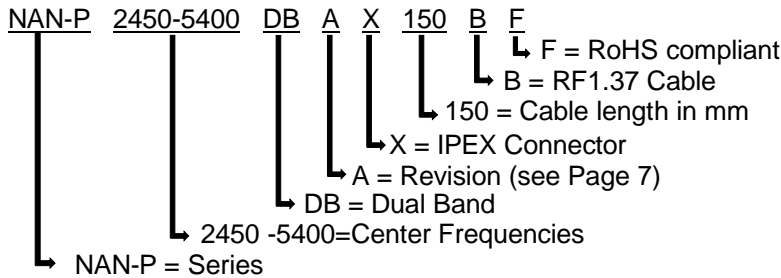
- Meters
- Routers
- Gateways
- Commercial / Handheld Electronics



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(see part numbering system for details)

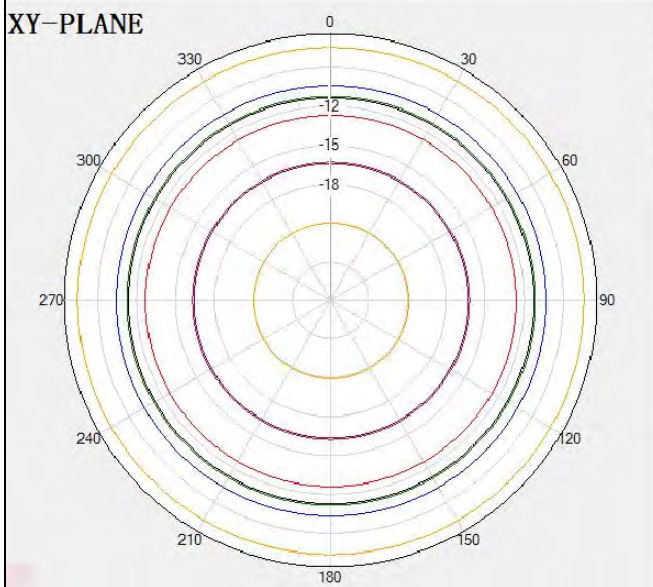
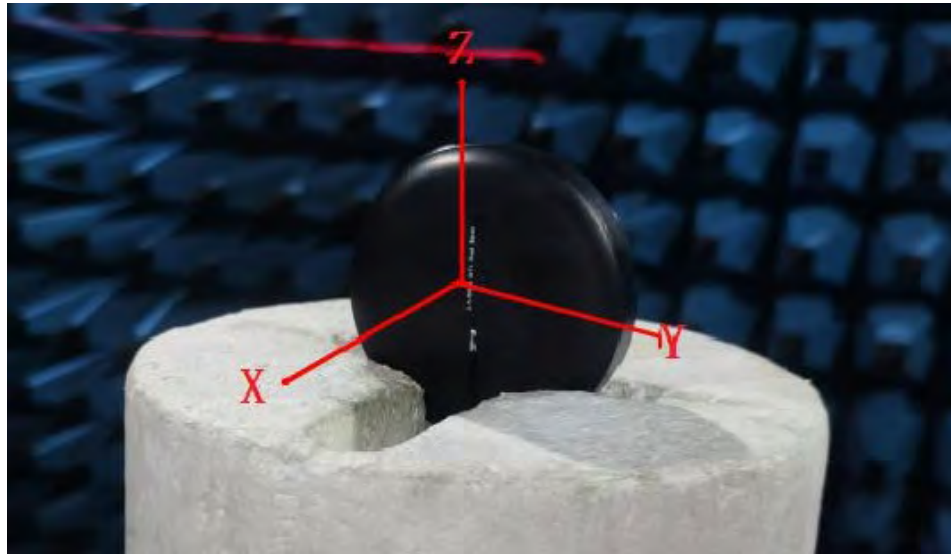
SPECIFICATIONS

| | |
|-------------------------|-----------------------------|
| Electrical | |
| Frequency Range | 2400~2483.5MHz/4900~5825MHz |
| Polarization | Linear |
| Gain | 3dBi |
| V.S.W.R | <2.0 |
| Impedance | 50Ω |
| Dimensions (mm): | |
| Body Length (L) | 45.0 ± 0.20 |
| Cable Length (CL) | 150 |
| Thickness(F) | 0.25 ± 0.05 |
| Width (W) | 7.0 ± 0.20 |
| Connector Type | IPEX |
| Cable Type | RF1.37 |

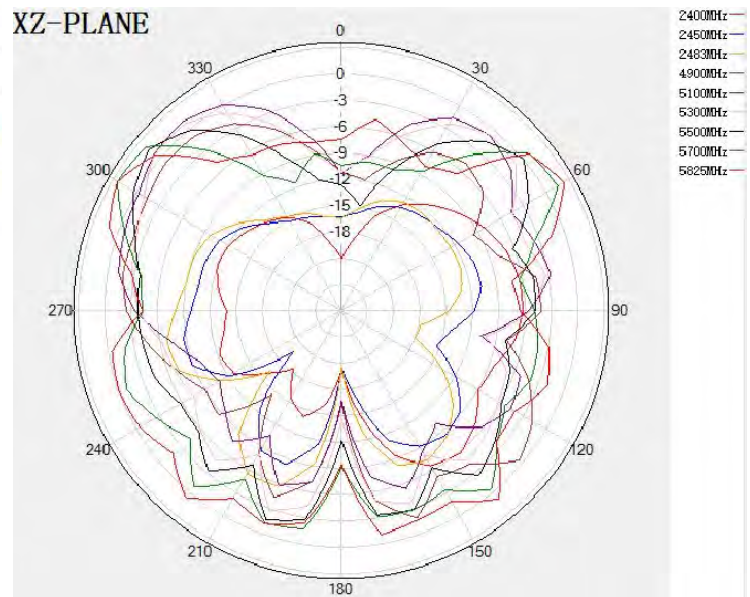


| | |
|-----------------------|-----------------------------------|
| Environmental | |
| Operating Temperature | -40°C~+85°C |
| Vibration | 10 ~ 55Hz 1.5mm Amplitude 2 Hours |
| RoHS Compliant | Yes |

Radiation / Antenna Patterns:



- 2400MHz
- 2450MHz
- 2483MHz
- 4900MHz
- 5100MHz
- 5300MHz
- 5500MHz
- 5700MHz
- 5825MHz



Revision History and Status

| Revision | Date Issued | Details | Status |
|----------|----------------------------|-----------------|-----------|
| A | Nov 4 th , 2020 | Initial Release | Supported |
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FEATURES

- Dual Band Frequency
- Customizable cable type and cable length
- Rigid PCB Type
- RoHS compliant

APPLICATIONS

- Routers
- Gateways
- Meters
- Commercial / Handheld Electronics

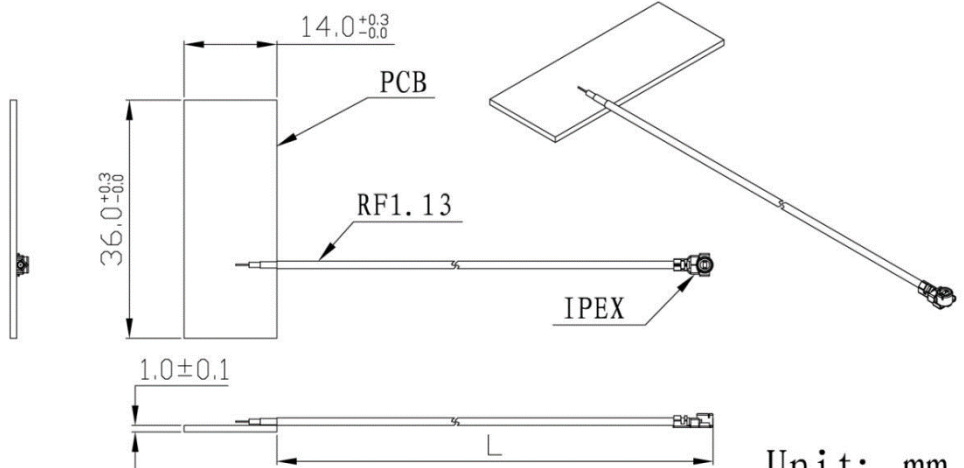


RoHS Compliant
includes all homogeneous materials
(see part numbering system for details)

SPECIFICATIONS

| | |
|-------------------------|--------------------------------|
| Electrical | |
| Frequency Range | 2400~2483.5MHz 4900~5825MHz |
| Polarization | Linear |
| Gain | 2dBi |
| V.S.W.R | <2.5 (min) |
| Impedance | 50Ω |
| Dimensions (mm): | |
| Body Length | 36.0 ± 0.30 |
| Cable Length | 100 |
| Thickness | 1.0 ± 0.1 |
| Width | 14 ± 0.3 |
| Connector Type | IPEX |
| Cable Type | RF1.13 |
| Mounting Method | Embedded/ Adhesive |

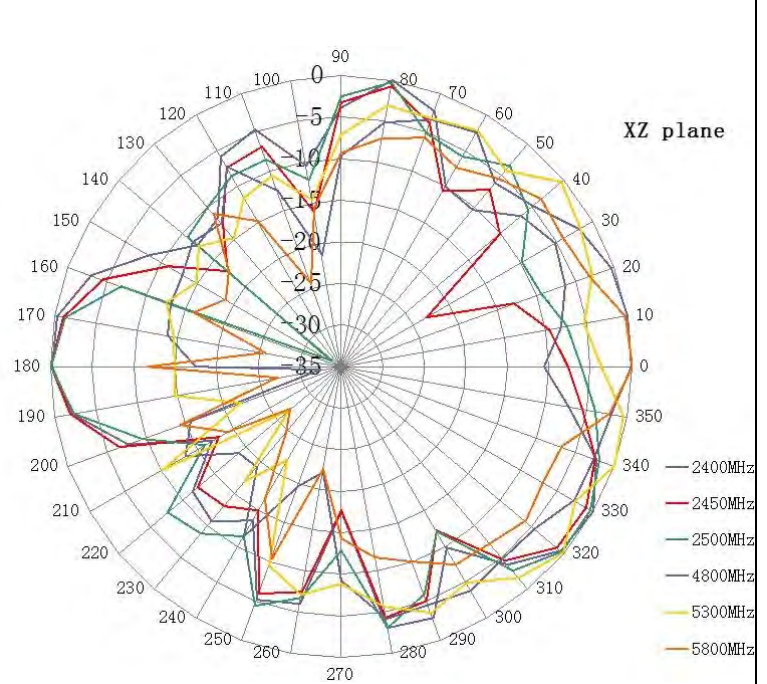
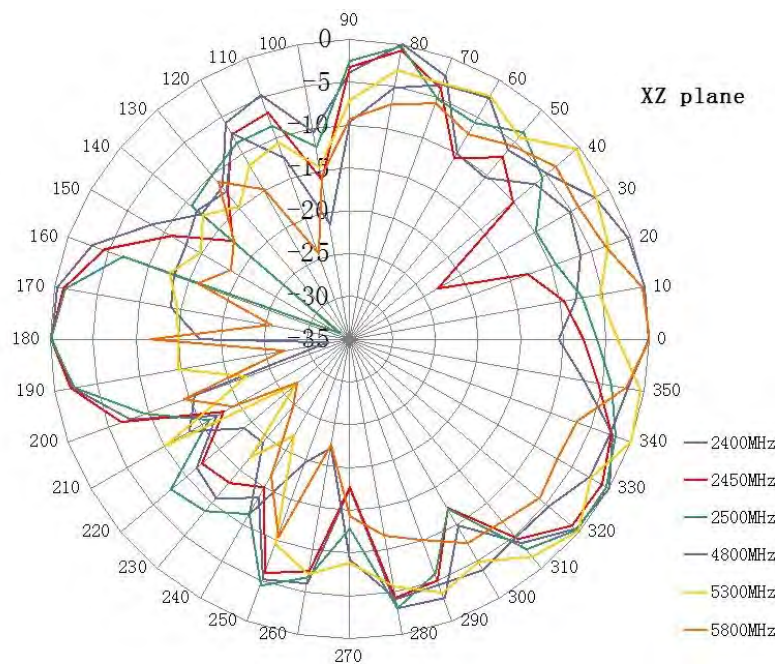
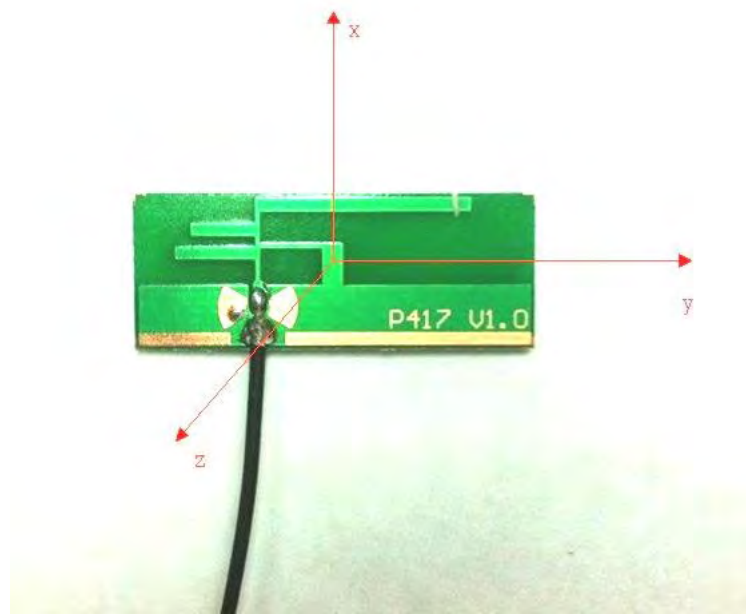
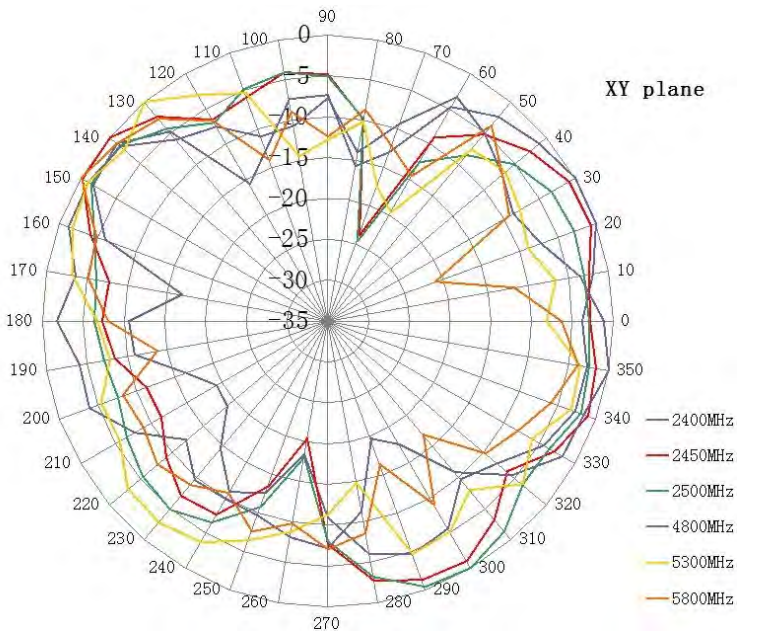
NAN-P 2450-5400 DB B X 100 A F
 F = RoHS compliant
 A = RF1.13 Cable
 100 = Cable length in mm
 X = IPEX Connector
 B = Revision Code (See Page 10)
 DB = Dual Band
 2450-5400 = Center Frequencies
 NAN-P = Series



Unit: mm

| | |
|-----------------------|-----------------------------------|
| Environmental | |
| Operating Temperature | -40°C~+85°C |
| Vibration | 10 ~ 55Hz 1.5mm Amplitude 2 Hours |
| RoHS Compliant | Yes |

Radiation/Antenna Patterns



Revision History and Status

| Revision | Date Issued | Details | Status |
|----------|----------------------------|--|-----------|
| A | Nov 4 th , 2020 | Initial Release – Size = 45mm x 7mm x 0.25mm | Supported |
| B | Nov 4 th , 2020 | New Release – Size = 36mm x 14mm x 1.0mm | Supported |
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| | | | |

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FEATURES

- Signal Band Frequency
- Customizable cable length and cable type
- Rigid PCB Type
- RoHS compliant

RoHS Compliant

includes all homogeneous materials
(see part numbering system for details)

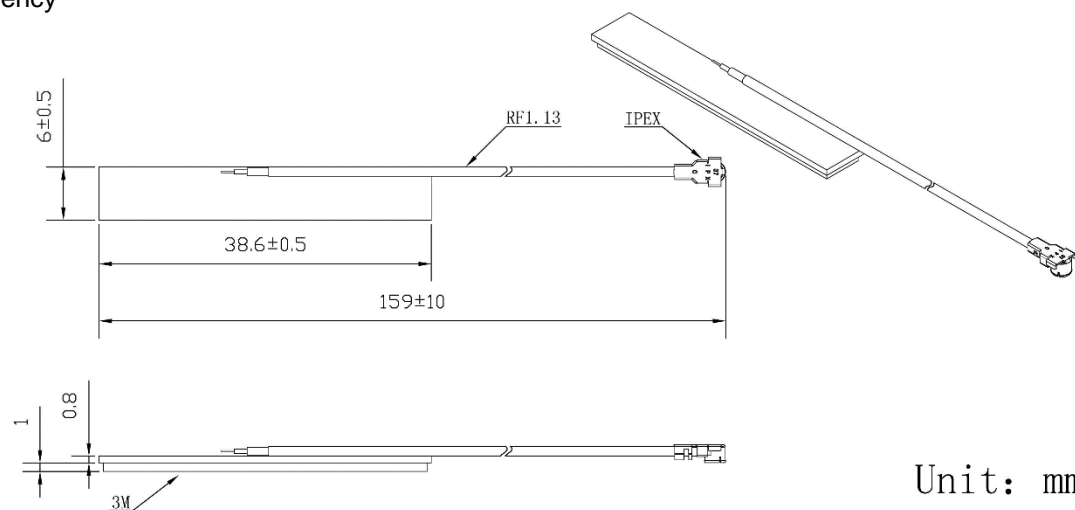
APPLICATIONS

- Gateways
- Routers
- Meters
- Commercial / Handheld Electronics

SPECIFICATIONS

| Electrical | |
|------------------|--------------------|
| Frequency Range | 2400~2483MHz |
| Polarization | Linear |
| Gain | 3dBi |
| V.S.W.R | <2.0 |
| Impedance | 50Ω |
| Dimensions (mm): | |
| Body Length | 38.6 ± 0.5 |
| Cable Length | 100 |
| Thickness | 1.8 |
| Width | 6.0 ± 0.5 |
| Connector Type | IPEX |
| Cable Type | RF1.13 |
| Mounting Method | Adhesive /Embedded |

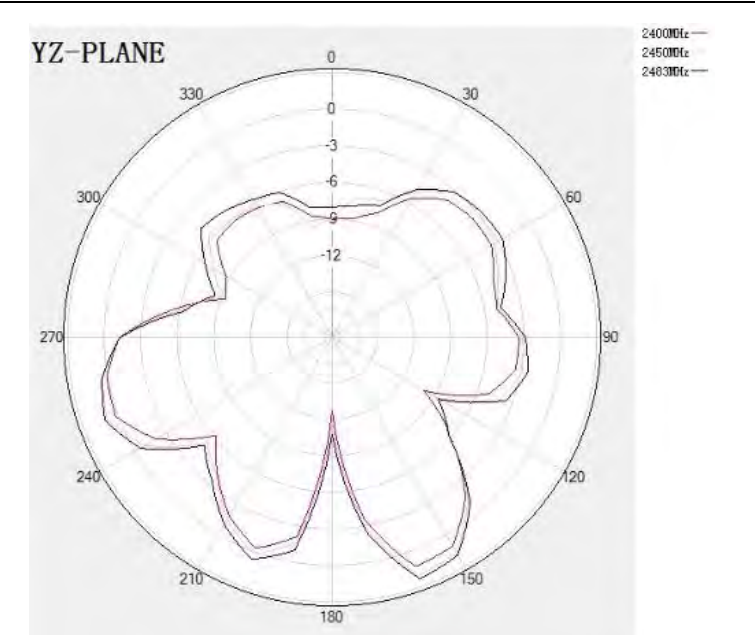
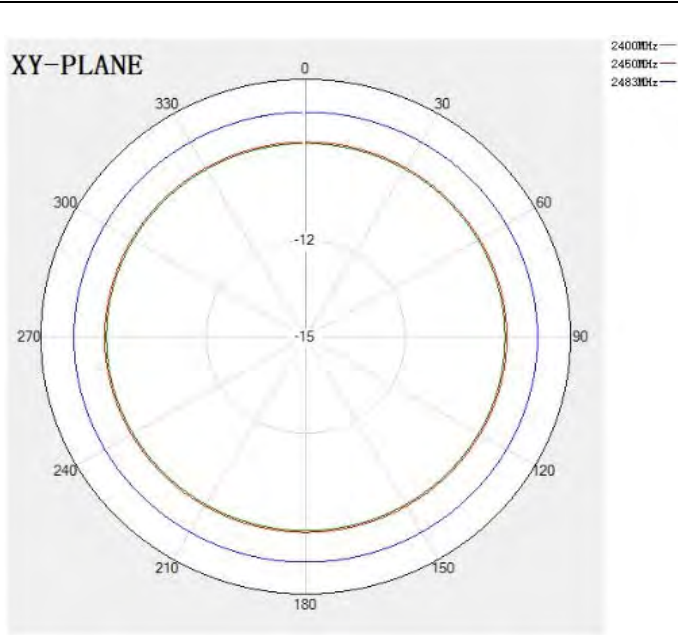
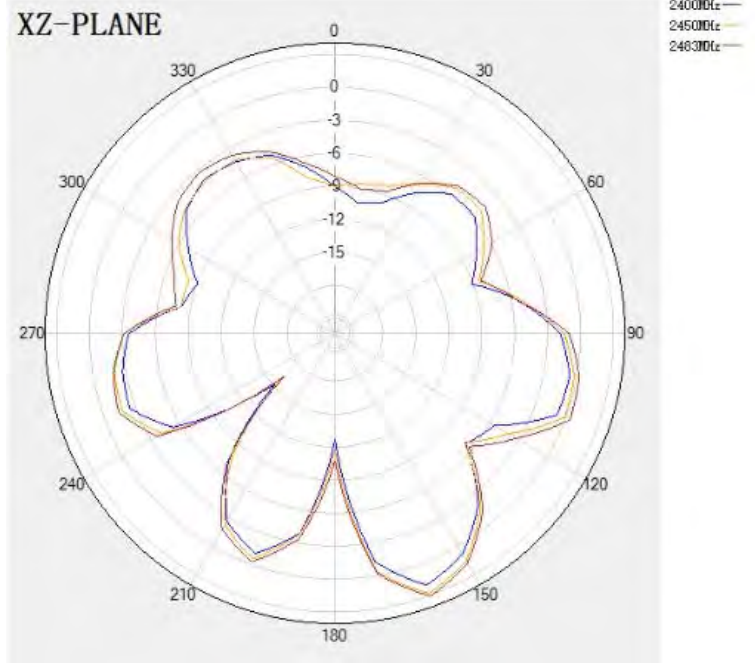
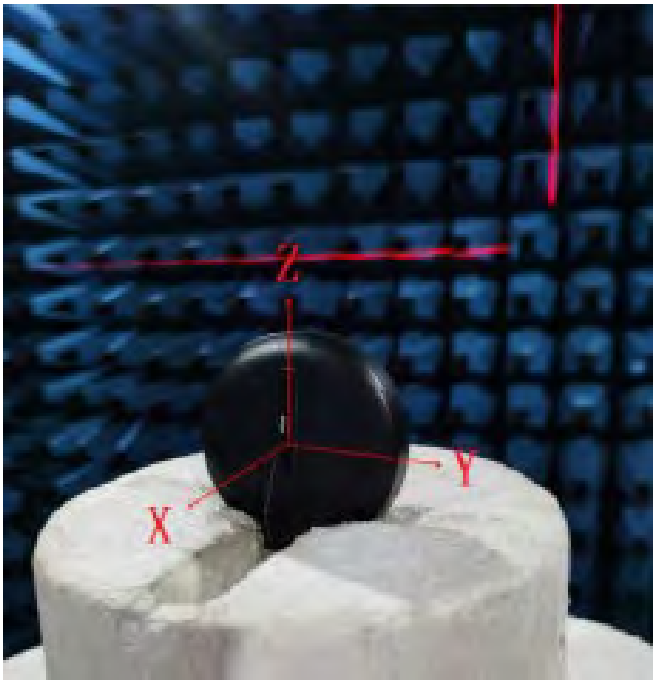
NAN-P **2450** **SB** **A** **X** **100** **A** **F**
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 NAN-P = Series 2450 = Center Frequency SB = Single Band A = Revisions Code (See page 13)
 X = IPEX Connector 100 = Cable length in mm A = RF1.13 Cable F = RoHS compliant



Unit: mm

| | |
|-----------------------|-----------------------------------|
| Environmental | |
| Operating Temperature | -40°C~+85°C |
| Vibration | 10 ~ 55Hz 1.5mm Amplitude 2 Hours |
| RoHS Compliant | Yes |

Radiation/Antenna Patterns



Revision History and Status

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