**Features:**

- Small form factor
- Size W x L x H (43x 17 x 0.5 mm)
- Low weight (0.8 g)
- Cable feed with I-PEX connector (U.FL compatible)
- Cable length 17.47 mm
- Lead free materials
- RoHS Compliant Product
- Mounting options:
 - With adhesive tape (not included into antenna)
 - Plastic pegs through holes in radiator, heat stacking

Applications:

- Frequency range (GSM 850 / GSM 900 / DCS / PCS)
- 2G / GPRS

All dimensions are in mm / inches

Issue: 2108

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

ELECTRICAL SPECIFICATIONS

Antenna Type	PCB + Cable
Frequency	824-960/1710-1990 MHz
Nominal Impedance	50 Ω
Return Loss	-5dB @ 824-960MHz -3.5dB @ 1710-1990MHz
Radiation Pattern	Omni
Gain	1 dBi
Efficiency	50%
Polarization	Vertical
Power Withstanding	1W

MECHANICAL SPECIFICATIONS

PCB size	43 [1.693] x 17 [.669] x 0.5 [.020](with adhesive) mm[inch]
Connector type	I-PEX connector (U.FL compatible)
Cable type	1.13 mm coaxial
Cable length	17.47 mm

ENVIRONMENTAL SPECIFICATIONS

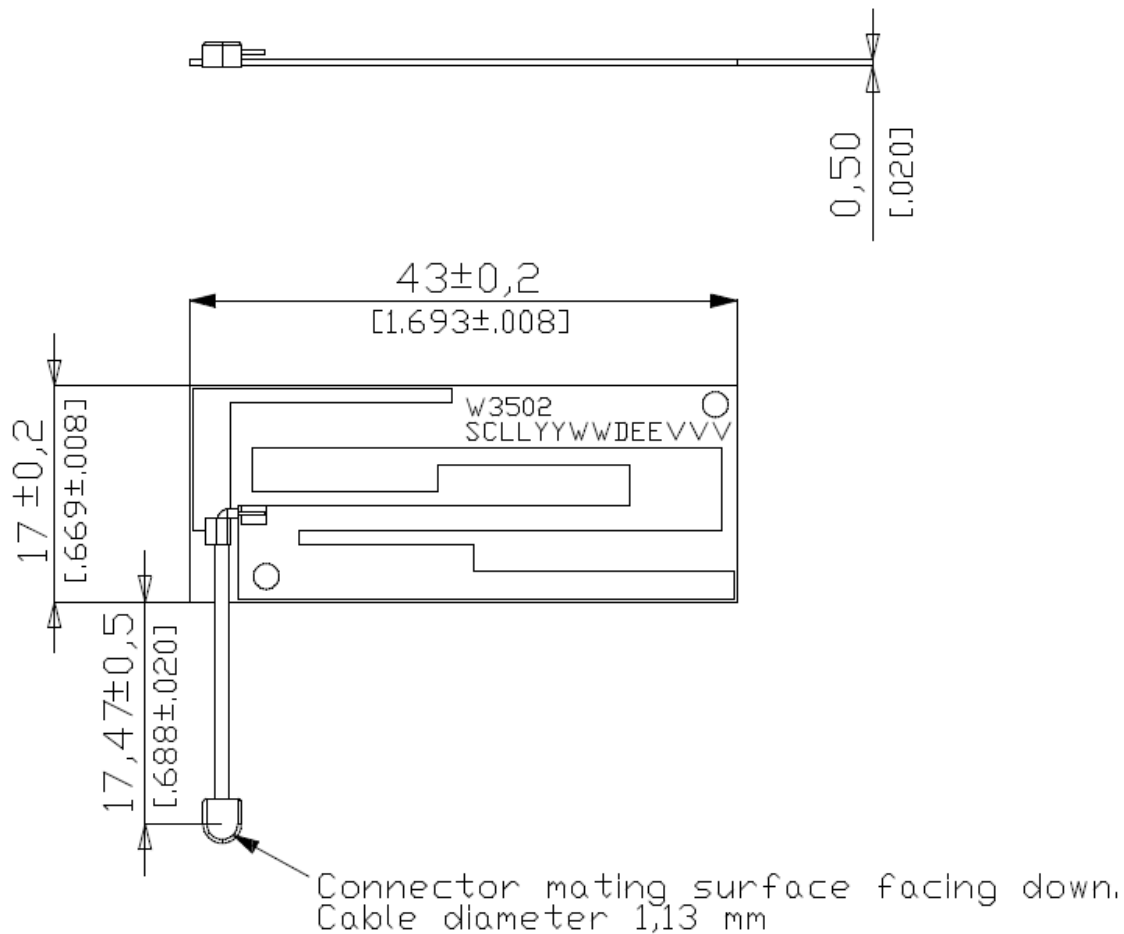
Operating Temperature	-40~85 °C
Storage Temperature	-40~85 °C
RoHS Compliant	Yes

Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

MECHANICAL DRAWING



Issue: 2108

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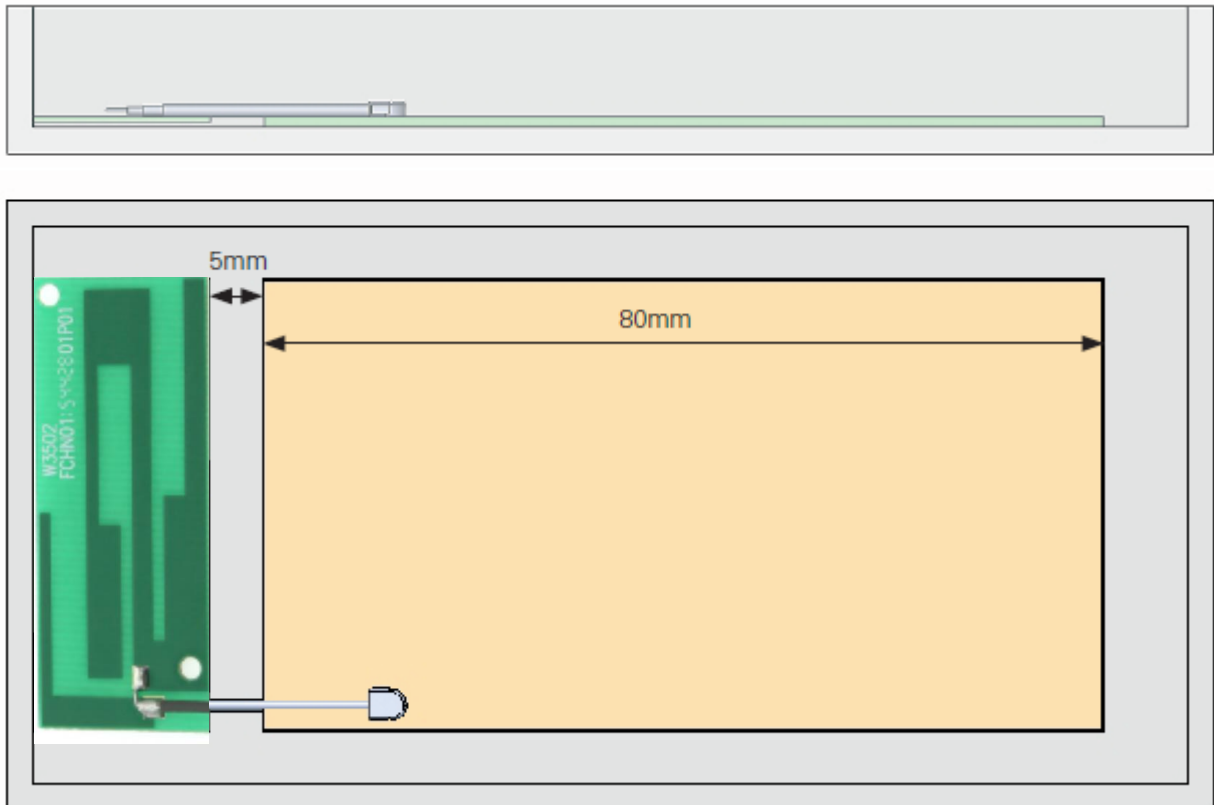
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Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

TEST SETUP



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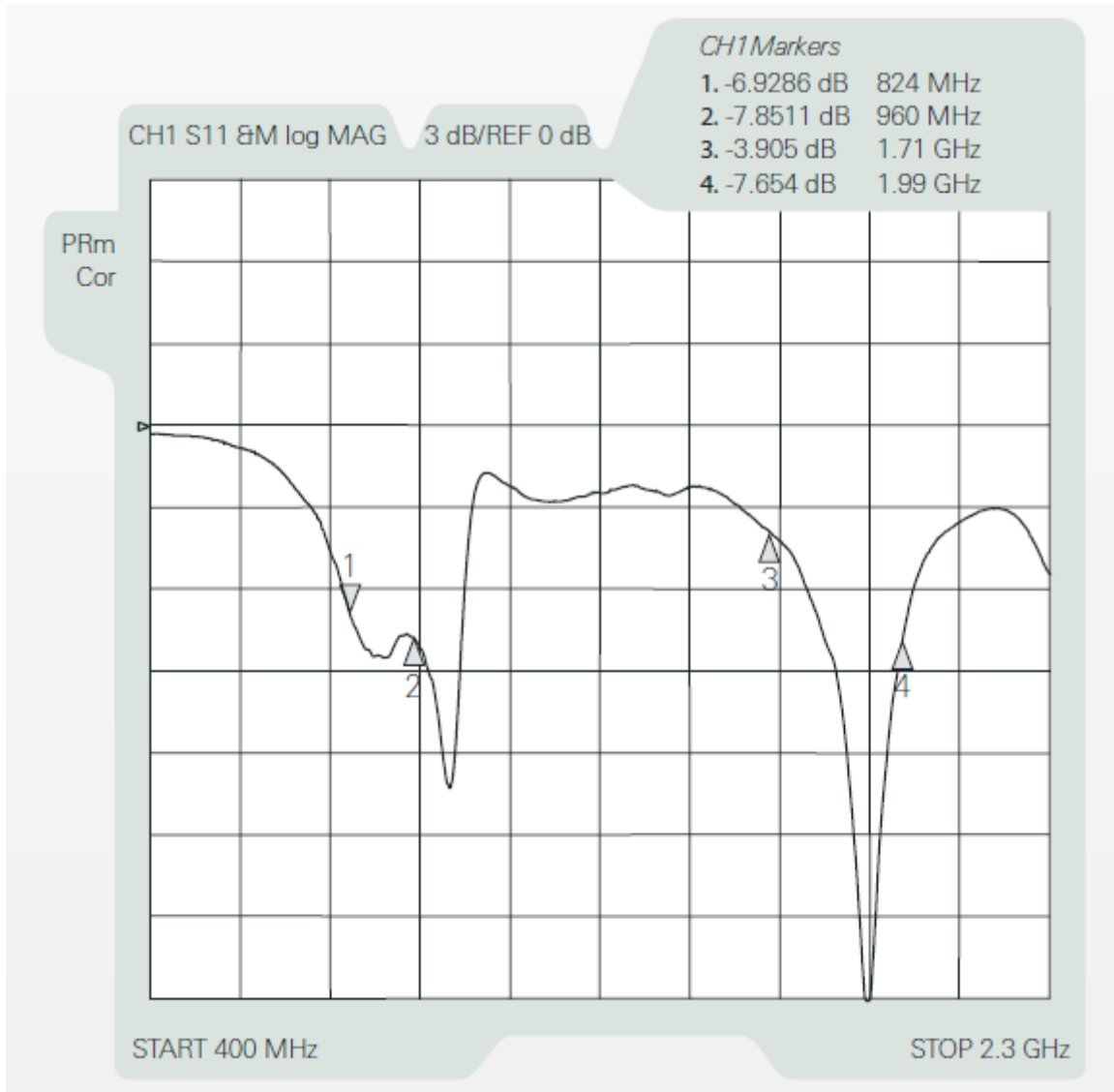
Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

CHARTS

Return Loss



Issue: 2108

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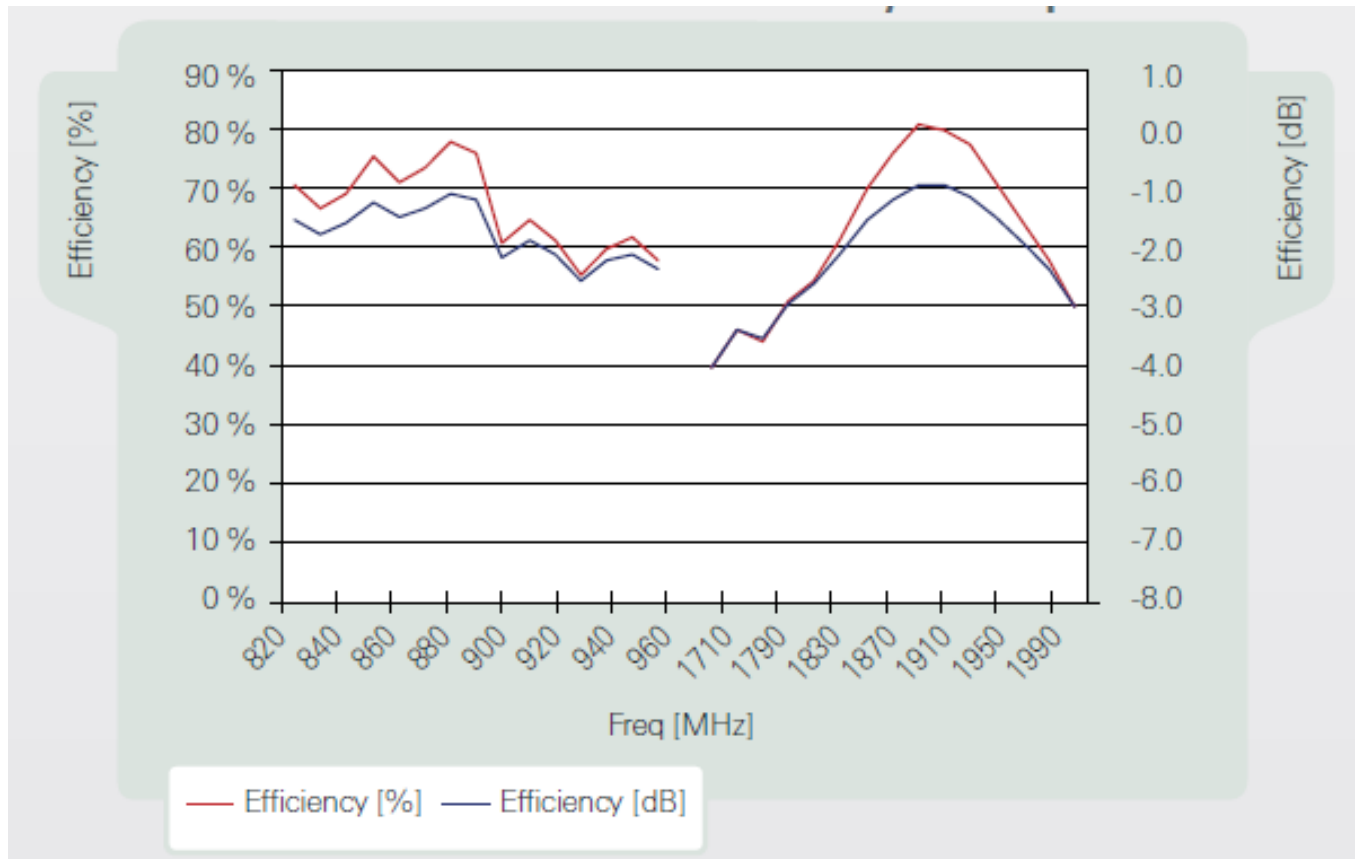
Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

CHARTS

Efficiency



Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

CHARTS

Peak Gain



Issue: 2108

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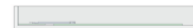
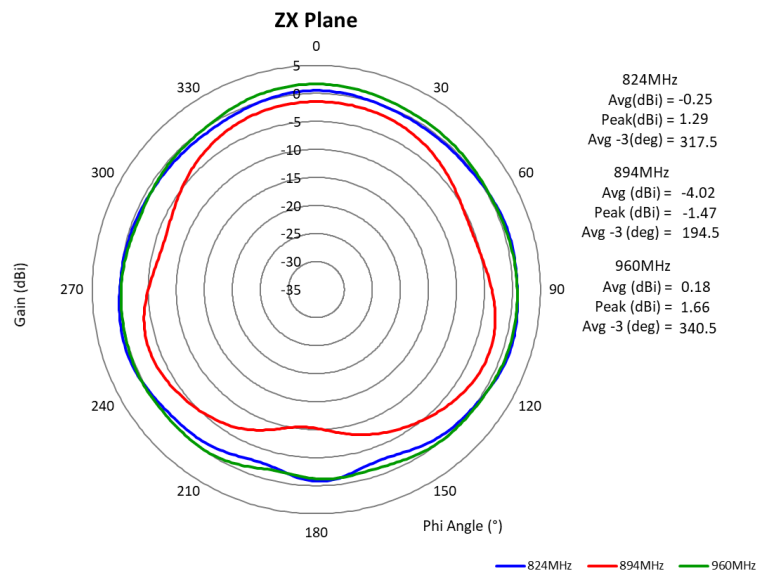
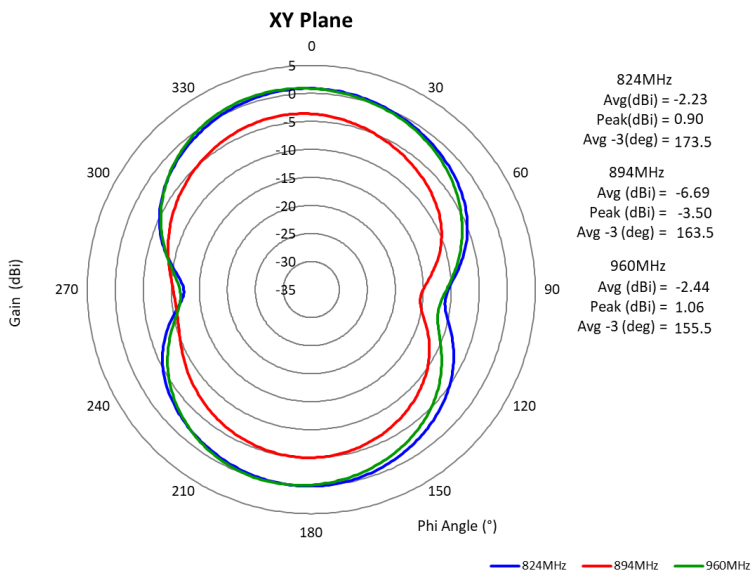
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Description: 824-960/1710-1990MHz PCB
Antenna with coax feed
PART NUMBER: W3502

Series: Internal Antenna

CHARTS

Radiation Pattern



Issue: 2108

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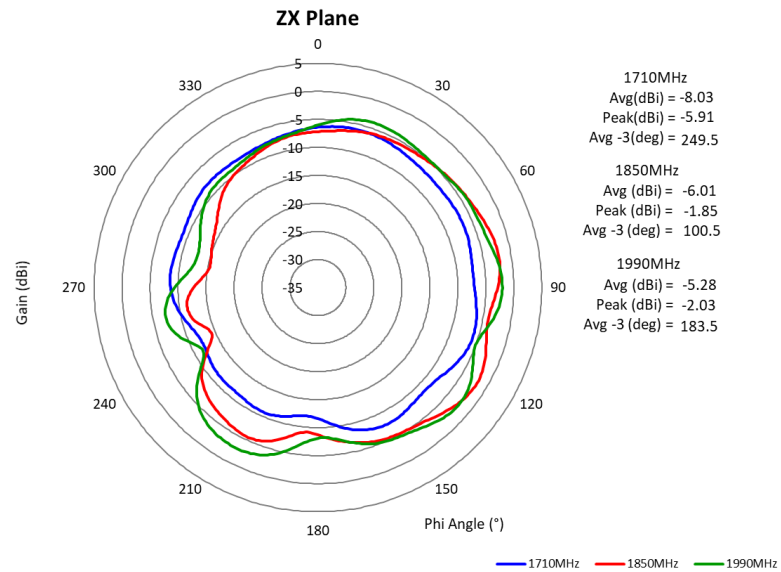
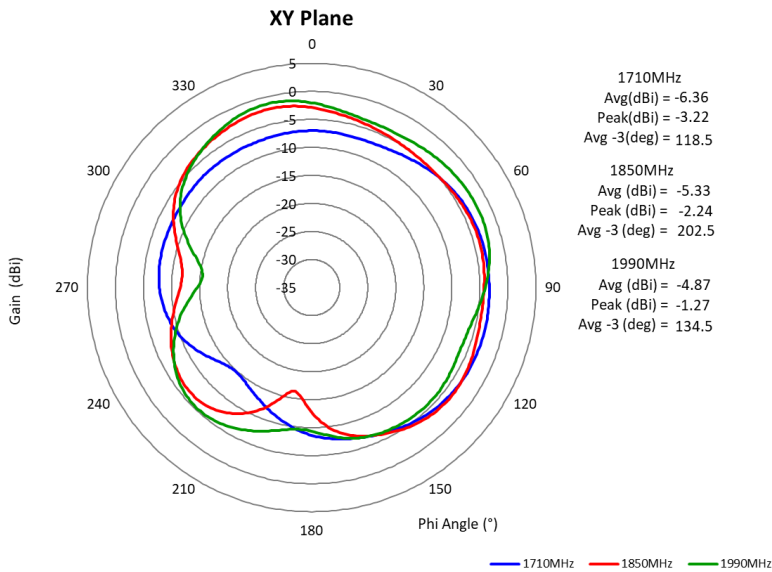
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Description: 824-960/1710-1990MHz PCB
Antenna with coax feed
PART NUMBER: W3502

Series: Internal Antenna

CHARTS

Radiation Pattern



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Description: 824-960/1710-1990MHz PCB
Antenna with coax feed

PART NUMBER: W3502

Series: Internal Antenna

PACKAGING

10 PCS/PE bag
10 PE bag/foam bag
12 foam bag/carton box
Total 1200 PCS/carton box



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