**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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**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 $\Omega$
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

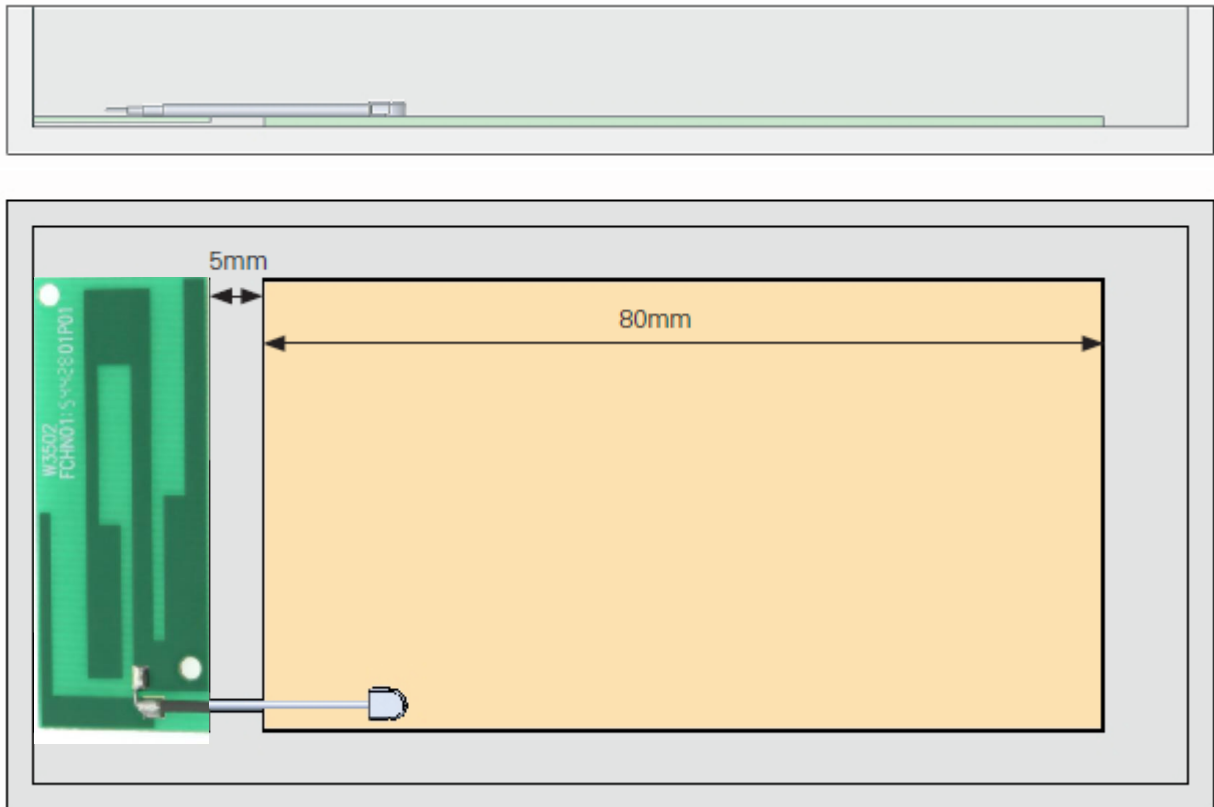


**Description:** 824-960/1710-1990MHz PCB  
Antenna with coax feed

**PART NUMBER:** W3502

**Series:** Internal Antenna

**TEST SETUP**



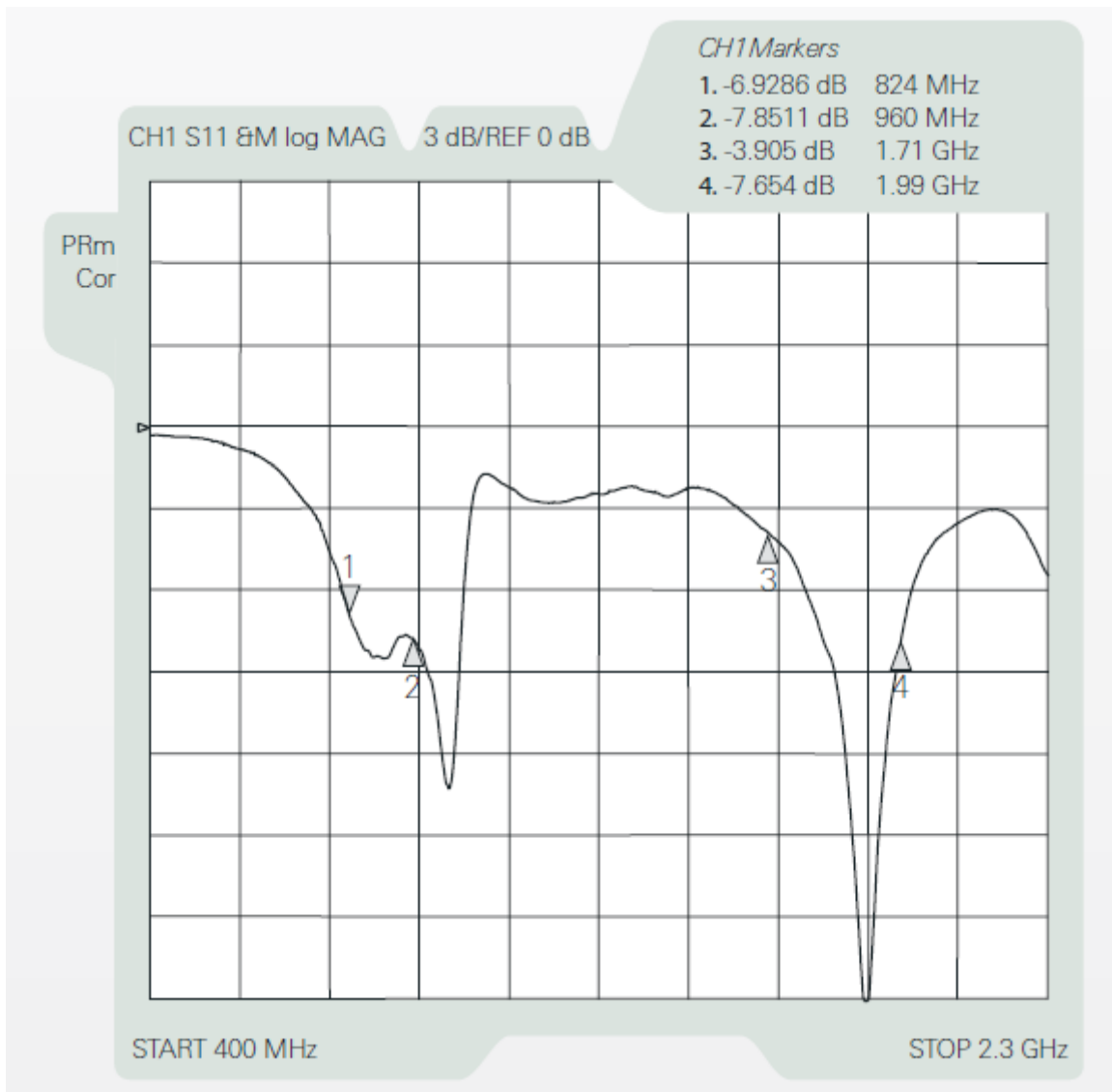
**Description:** 824-960/1710-1990MHz PCB Antenna with coax feed

**PART NUMBER:** W3502

**Series:** Internal Antenna

## CHARTS

### Return Loss



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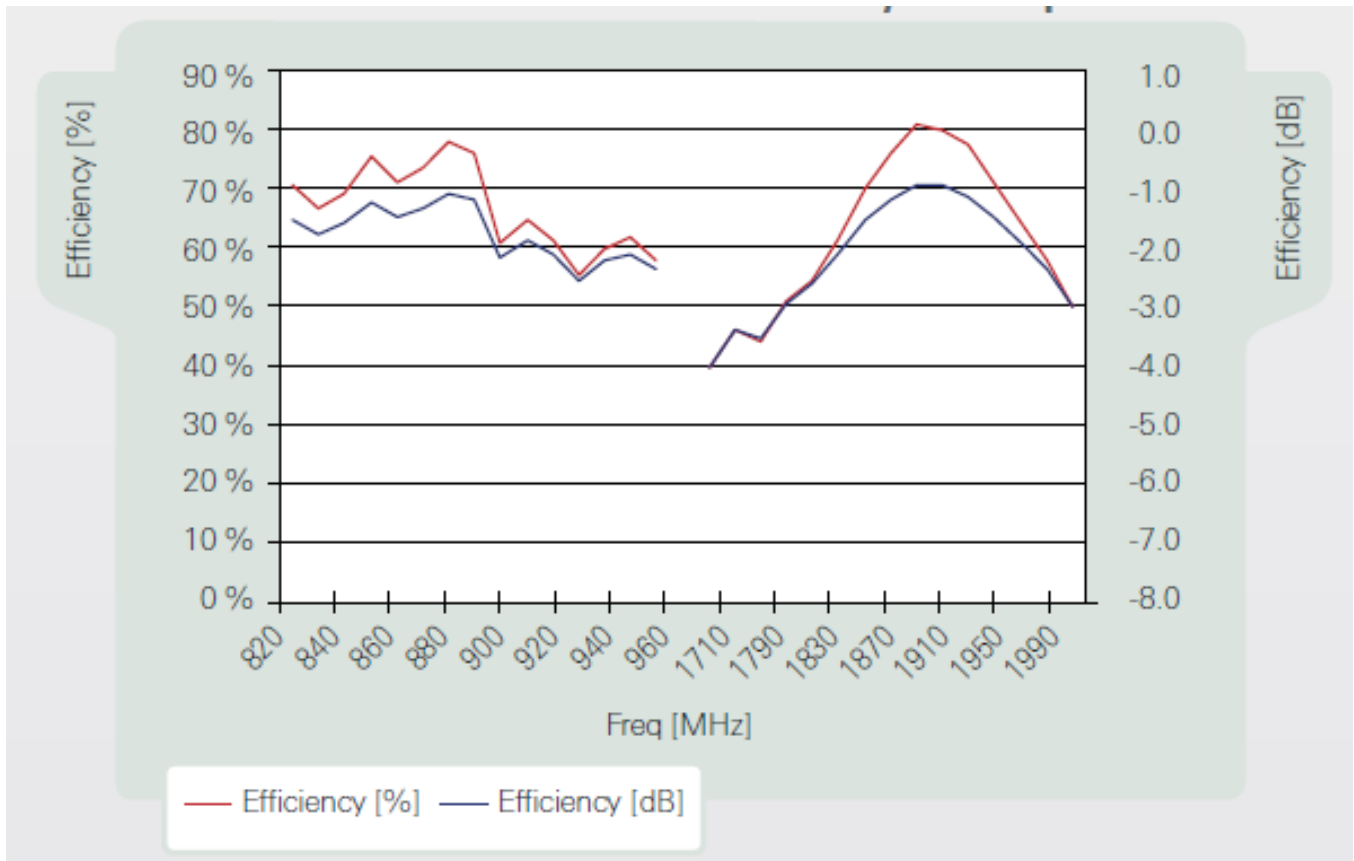
**Description:** 824-960/1710-1990MHz PCB Antenna with coax feed

**PART NUMBER:** W3502

**Series:** Internal Antenna

## CHARTS

### Efficiency



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

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## CHARTS

### Peak Gain



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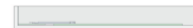
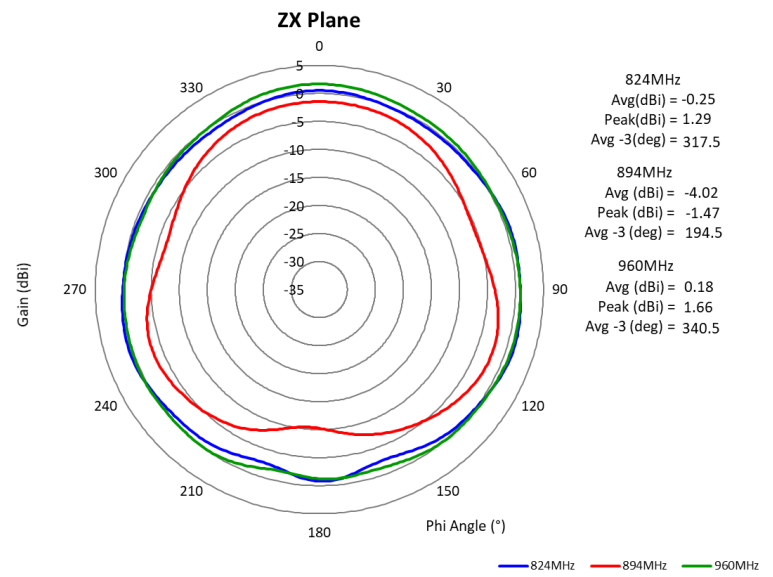
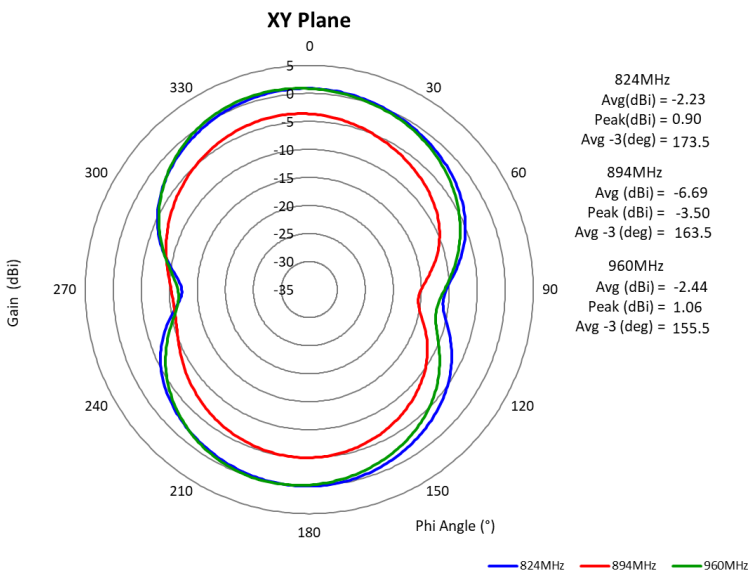
**Description:** 824-960/1710-1990MHz PCB Antenna with coax feed

**PART NUMBER:** W3502

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### CHARTS

## Radiation Pattern



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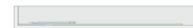
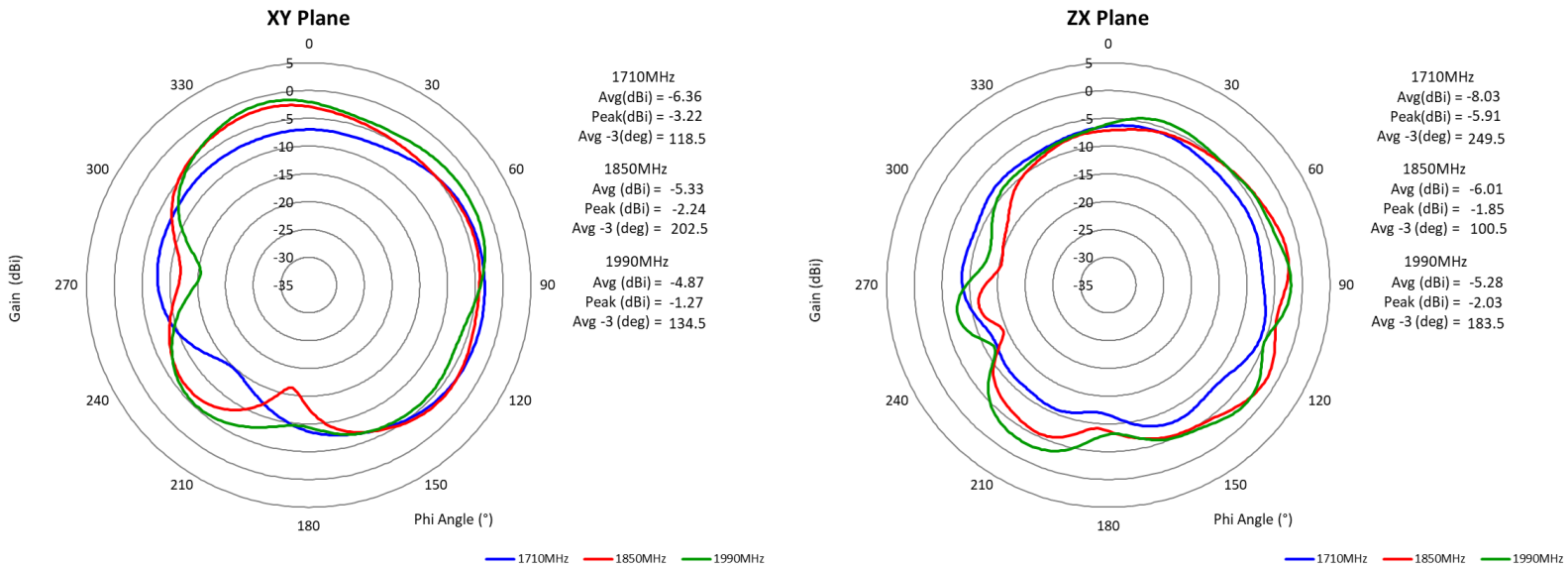
**Description:** 824-960/1710-1990MHz PCB Antenna with coax feed

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### CHARTS

## Radiation Pattern



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Antenna with coax feed

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### PACKAGING

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



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