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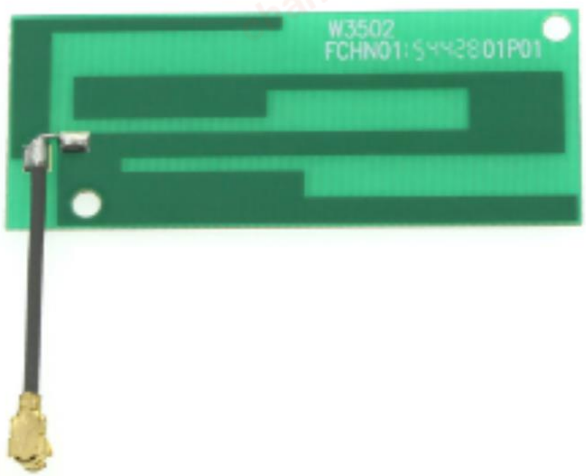
Pulse
a YAGEO company

Series: Internal Antenna

TECHNICAL DATA SHEET

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

PART NUMBER: W3502



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

RoHS COMPLIANT

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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

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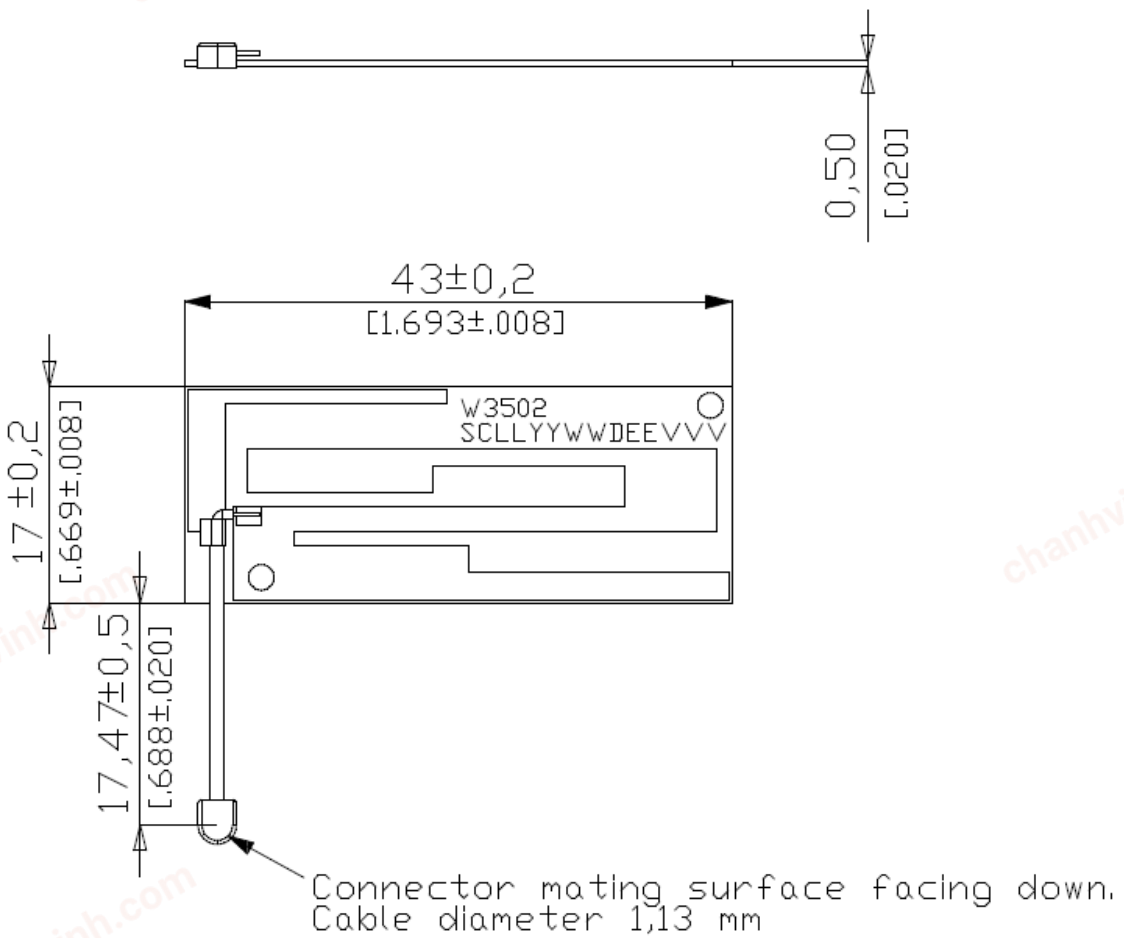
MECHANICAL DRAWING



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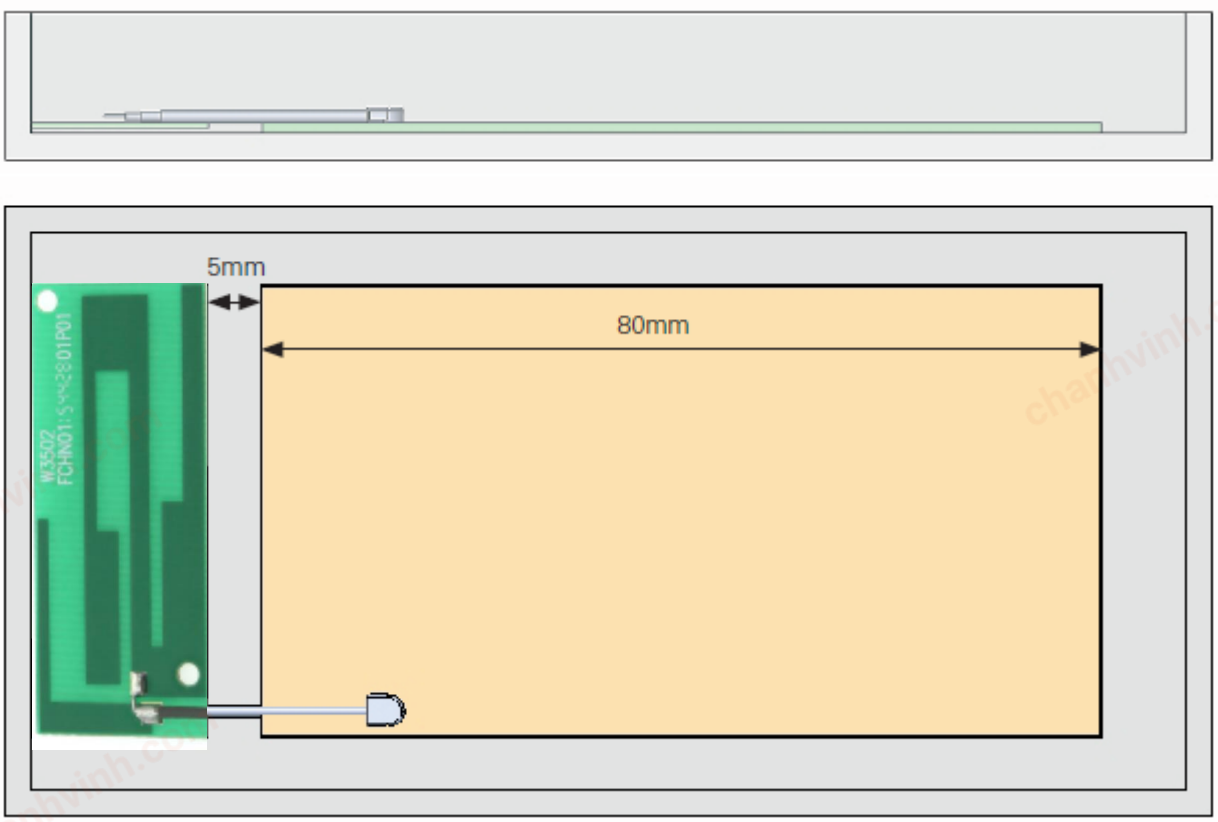
TEST SETUP



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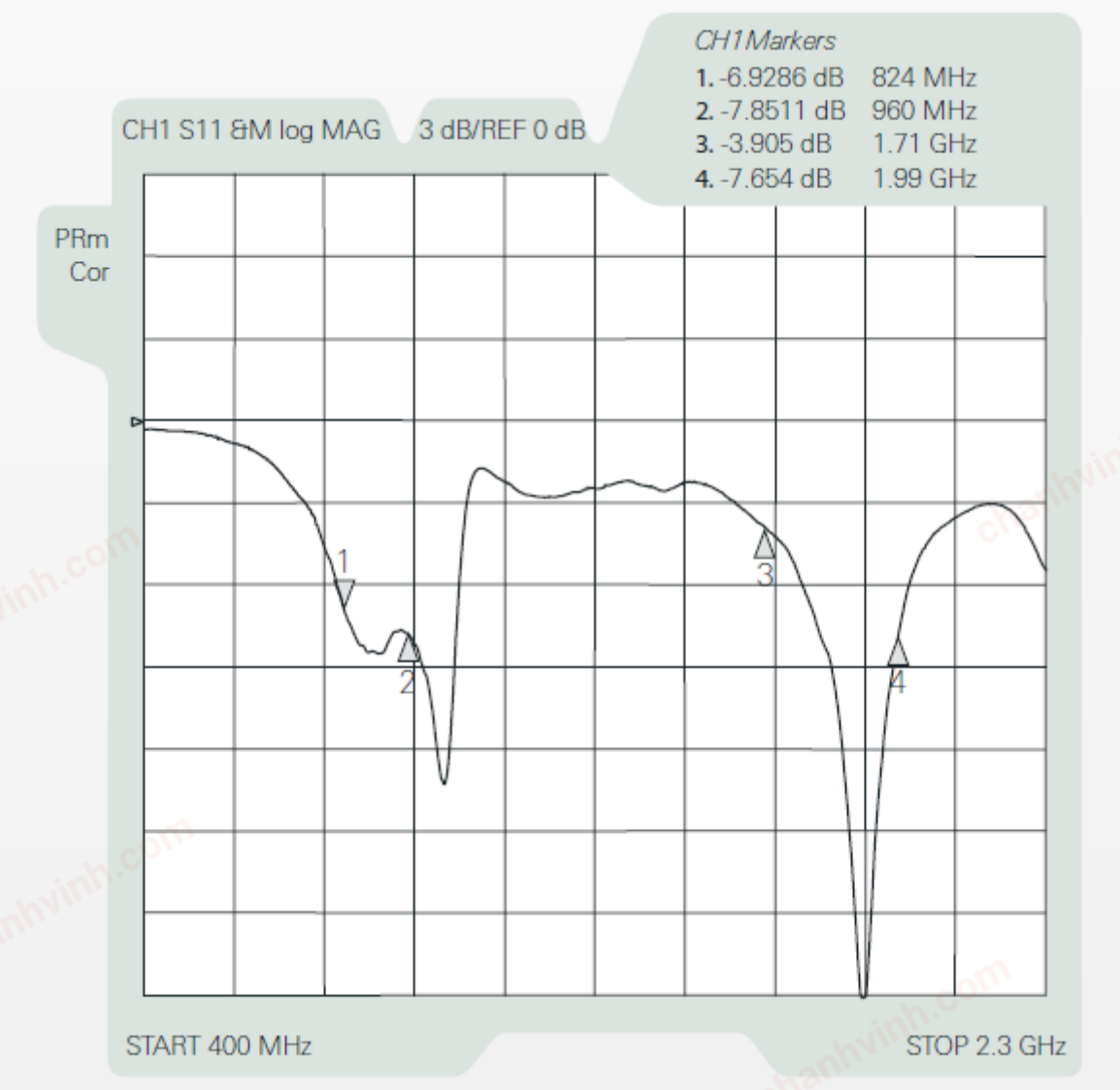
CHARTS

Return Loss



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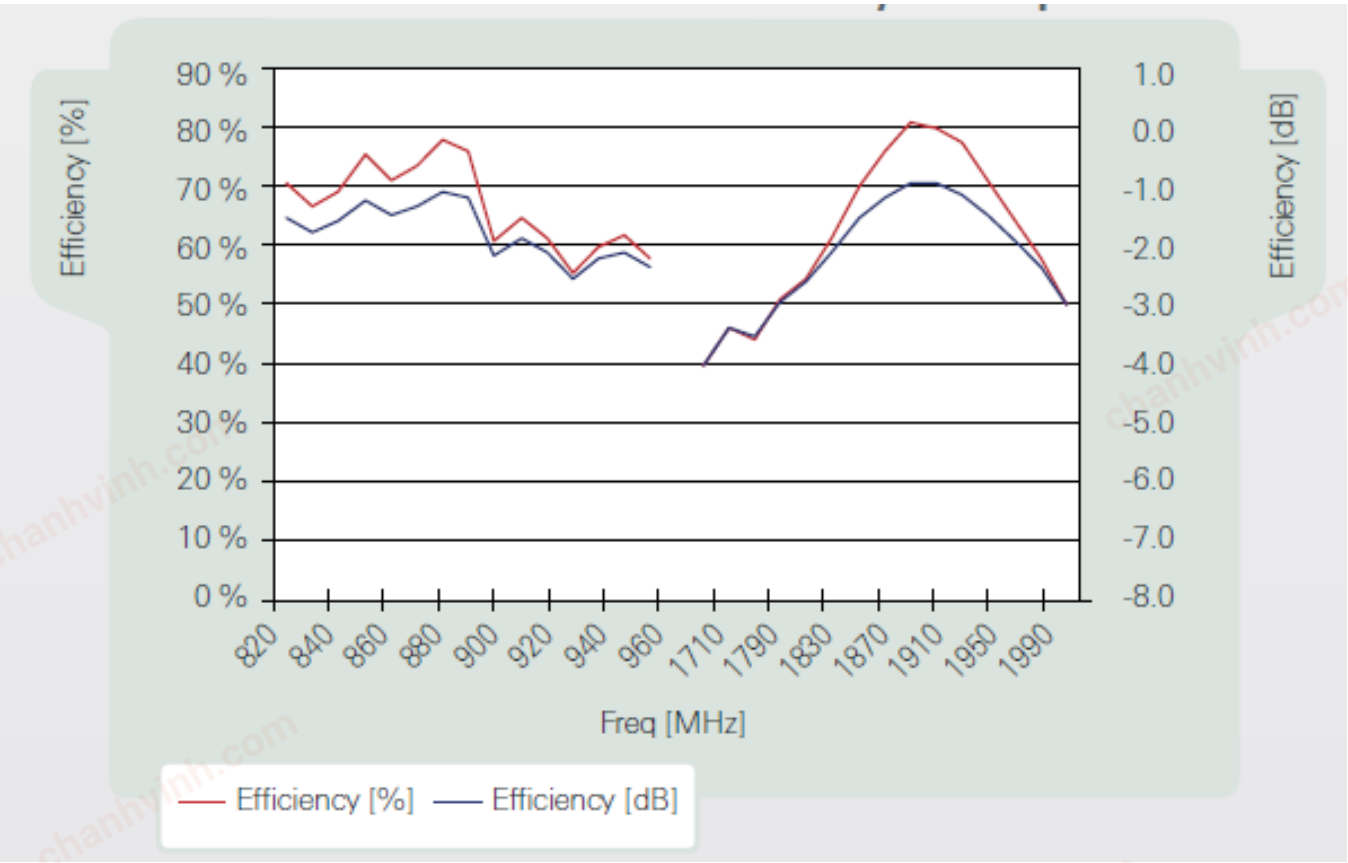
CHARTS

Efficiency



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CHARTS

Peak Gain



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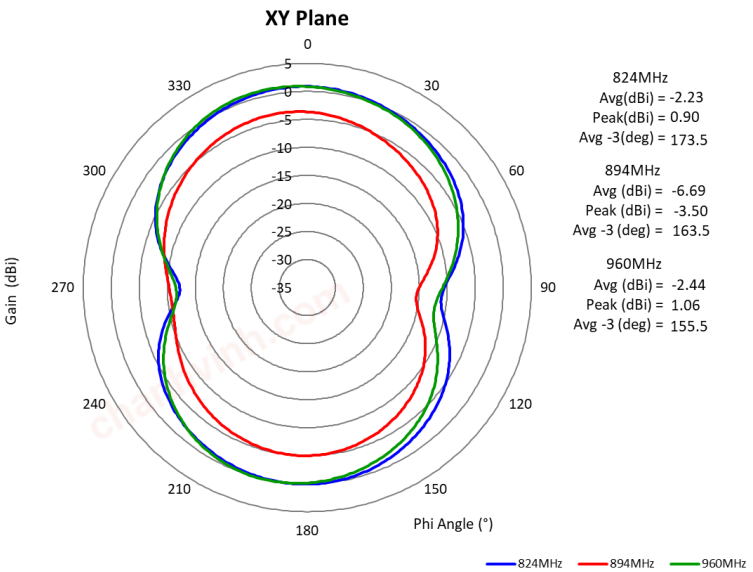
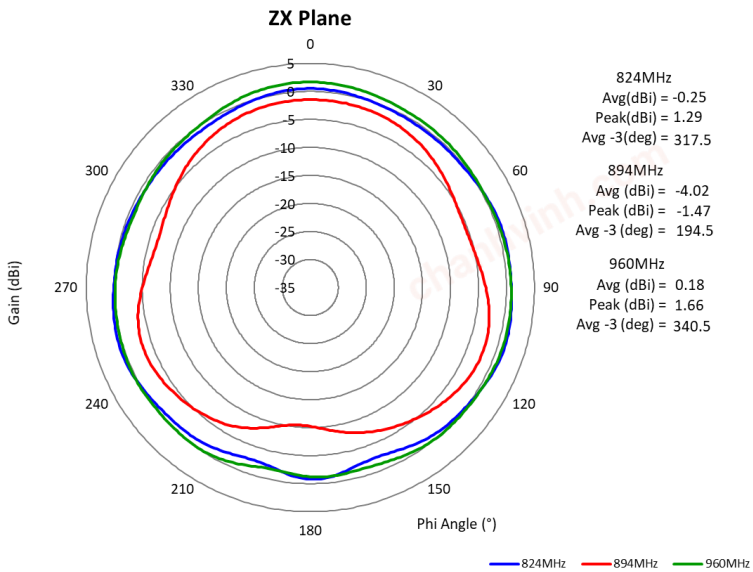
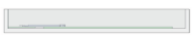
CHARTS

Radiation Pattern









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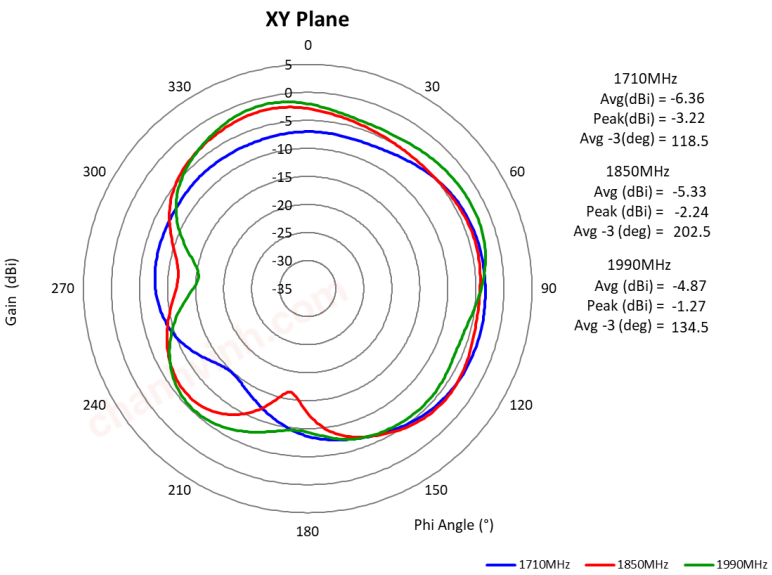

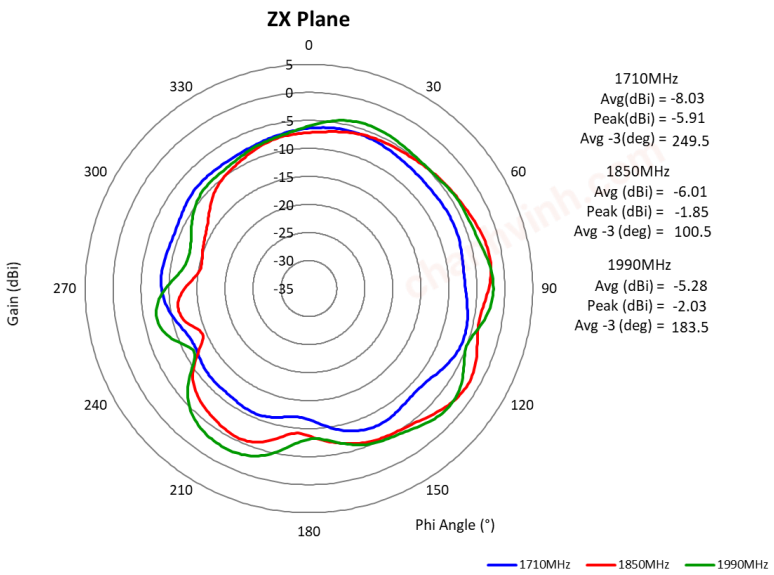



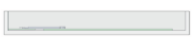

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PACKAGING

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







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