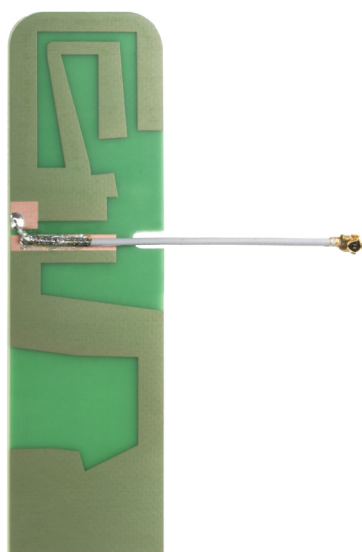


Internal Quad Band PWB Antenna

(25 x 87 x 0.2 mm, PWB antenna) Pulse Part Number: W3501



Features

- Very Low profile
- Compact size W x L x H (25 x 87 x 0.2 mm)
- Low weight (1.35 g)
- Cable feed with I-PEX connector (U.FL compatible)
- Lead free materials
- Lead free soldering compatible
- RoHS Compliant Product

Applications

- Frequency range (GSM 850 / GSM 900 / DCS / PCS)

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on device mechanics

GSM 850: 824 – 894 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
824 – 894	1.33	50 / -3.0	-7	50	-45 to +85

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Internal Quad Band PWB Antenna

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GSM 900 : 880 – 960 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
880 – 960	1.50	55 / -2.6	-6.5	50	-45 to +85

DCS : 1710 – 1880 MHz

Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
1710 – 1880	3.75	50 / -3.0	-8	50	-45 to +85

PCS : 1850 – 1990 MHz

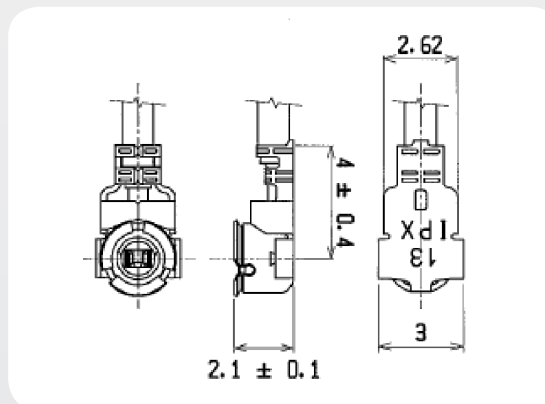
Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [° C]
1850 – 1990	3.45	50 / -3.0	-8	50	-45 to +85

Cable and Connector Configuration

Cable length: 56 mm

Cable outer diameter: 1.13 mm



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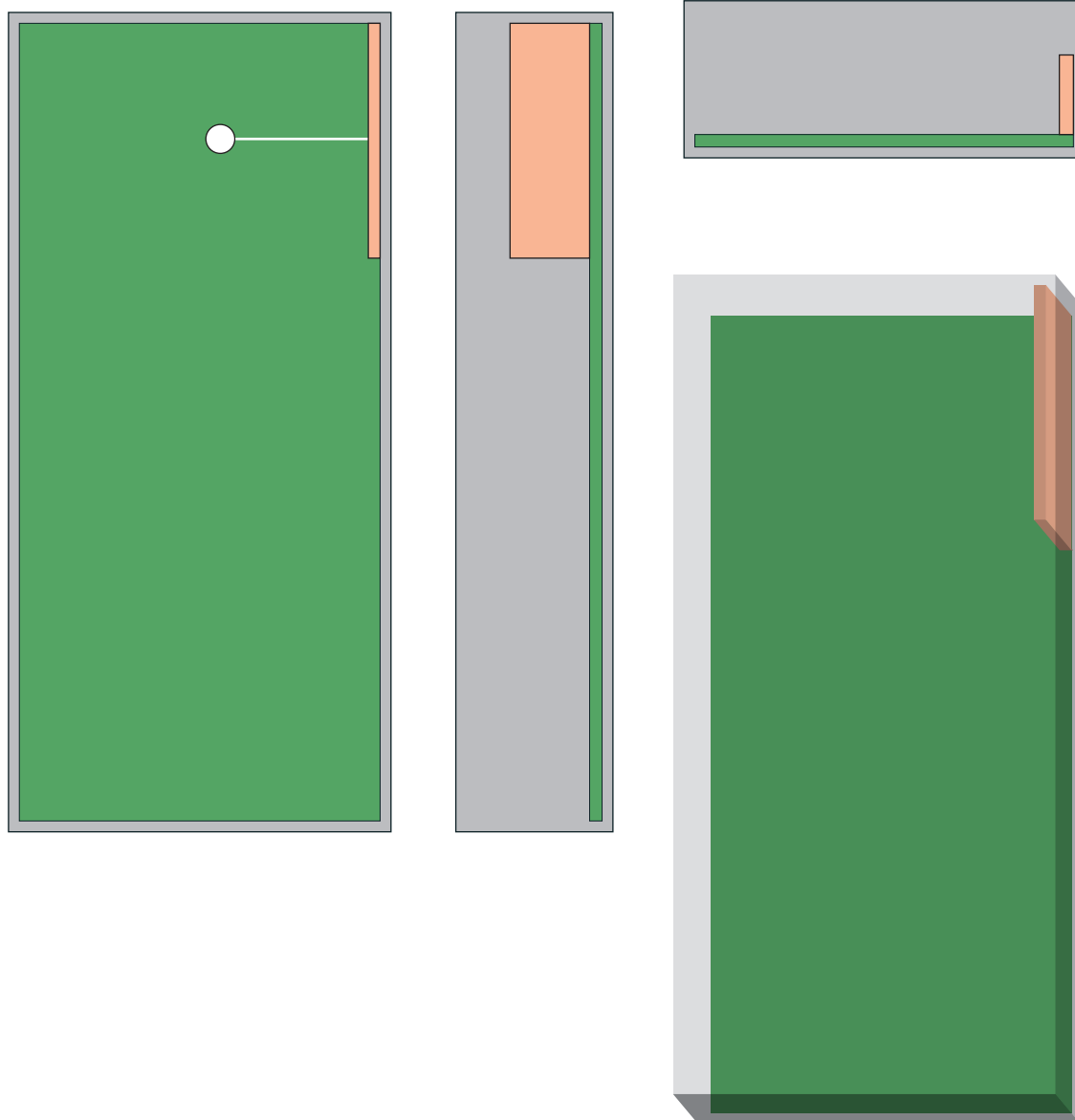
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Internal Quad Band PWB Antenna

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Test Unit and Antenna Location

Test unit size 150 x 100 x 40mm



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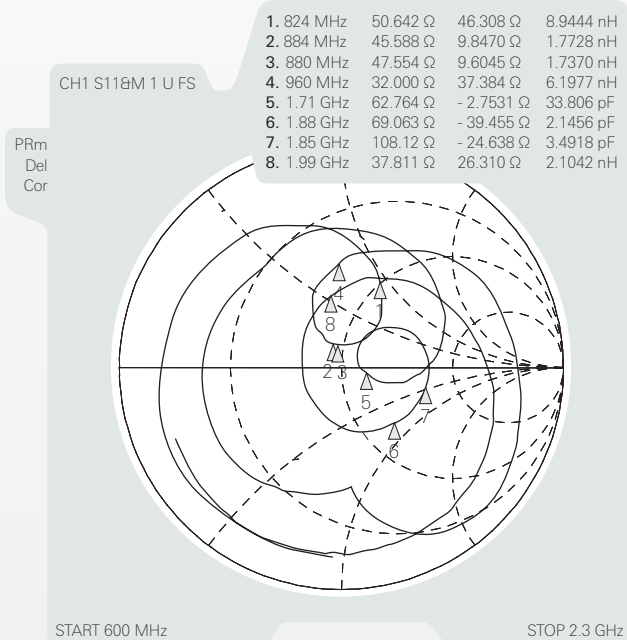
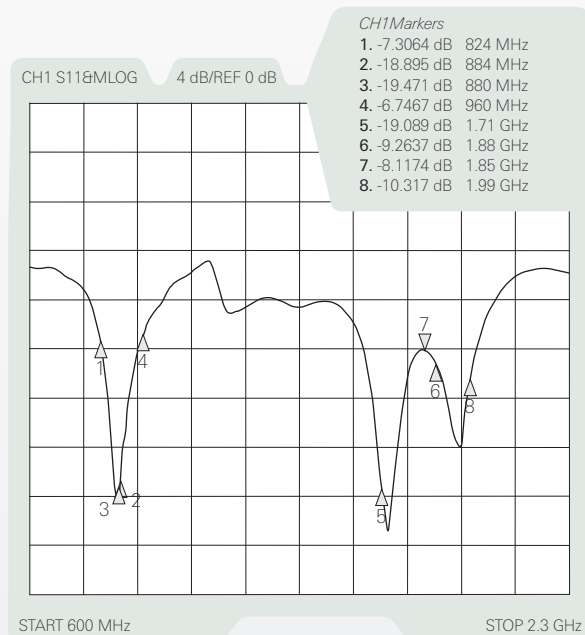
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Internal Quad Band PWB Antenna

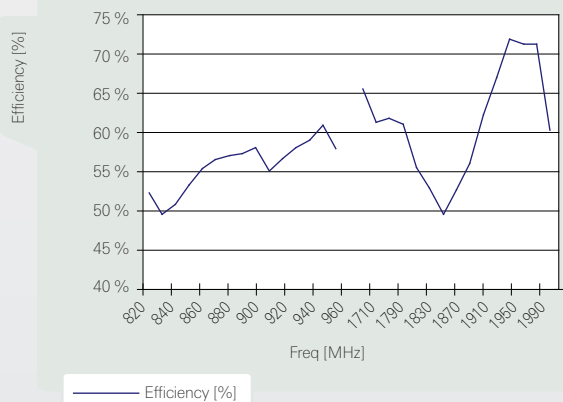
(25 x 87 x 0.2 mm, PWB antenna) Pulse Part Number: W3501

Typical Electrical Characteristics 600 – 2300 MHz (T=25 °C)

Measured on the test board, Typical Return Loss S11/ impedance



3501 Internal Quad Band Antenna Efficiency



3501 Internal Quad Band Antenna Max Gain



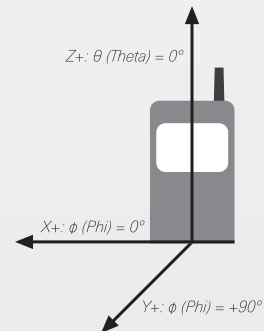
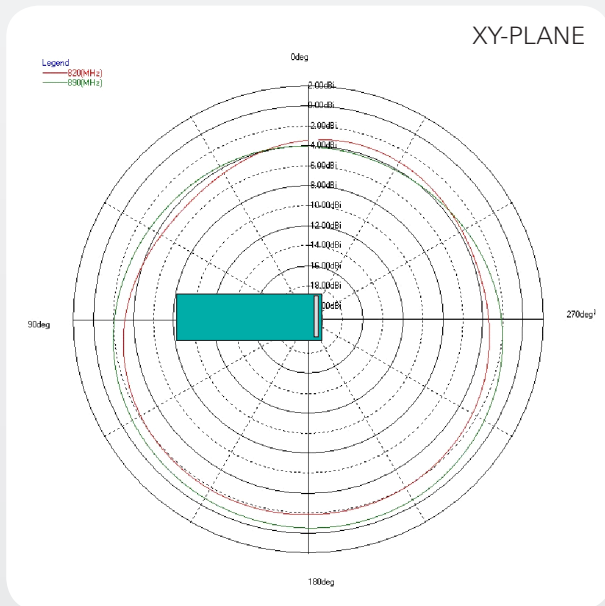
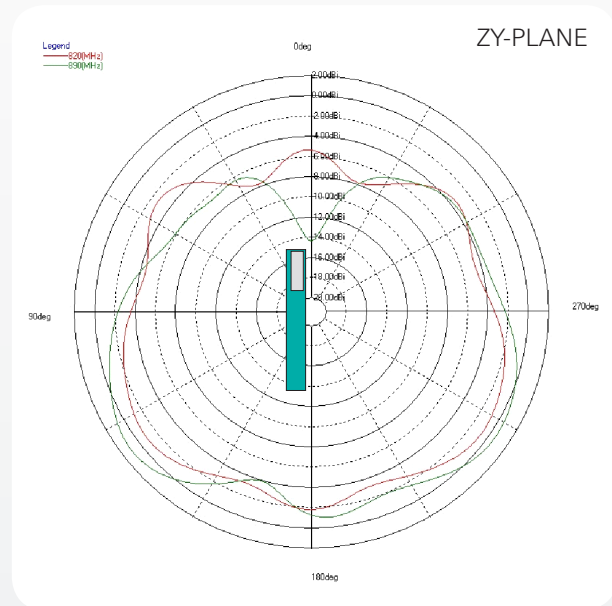
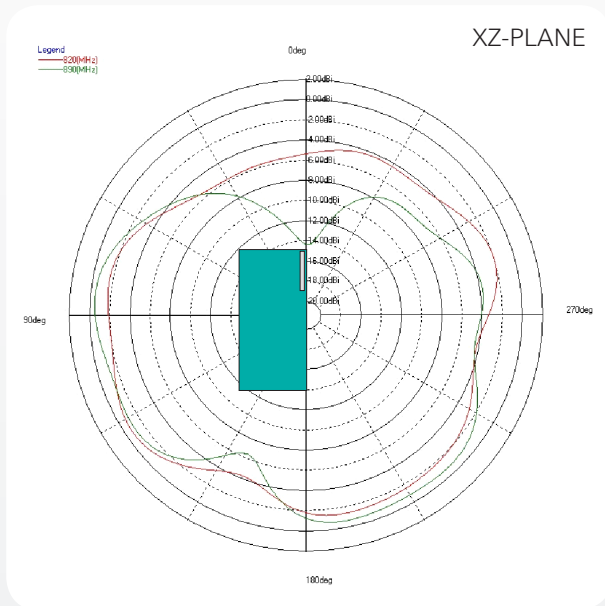
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Internal Quad Band PWB Antenna

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824 – 894 MHz Typical Free Space Radiation Patterns



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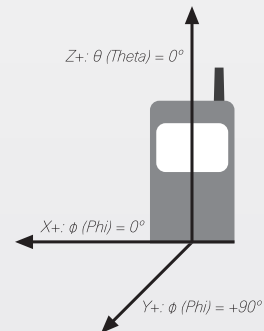
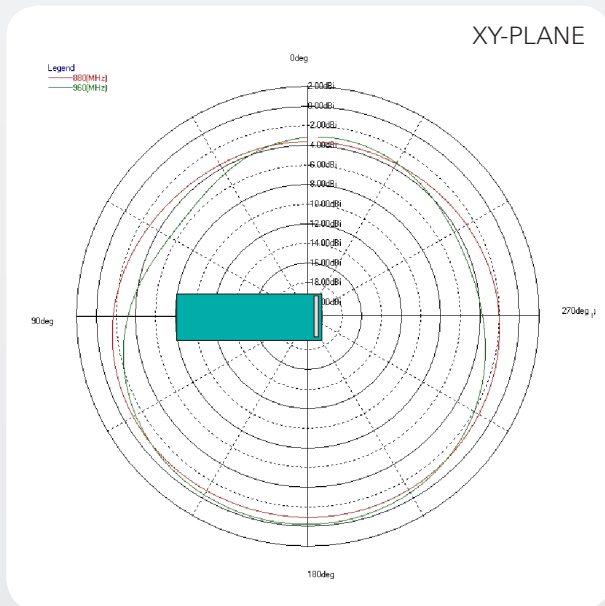
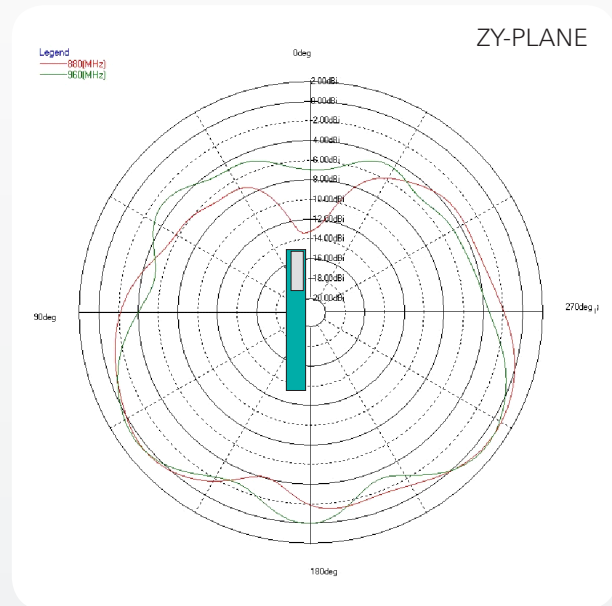
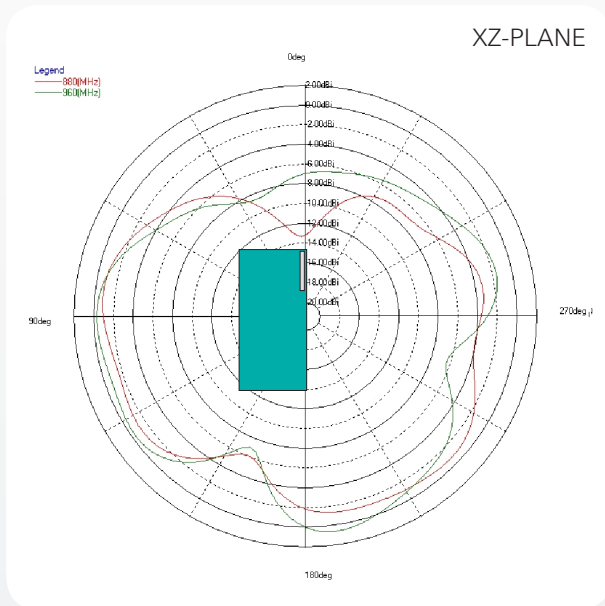


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Internal Quad Band PWB Antenna

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880 – 960 MHz Typical Free Space Radiation Patterns



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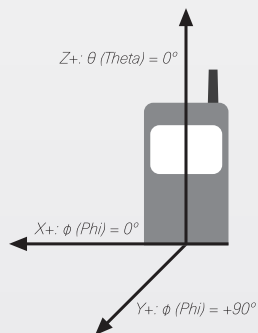
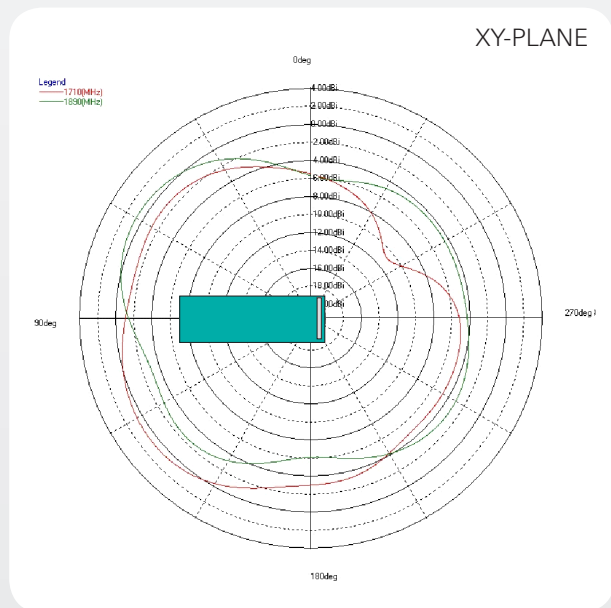
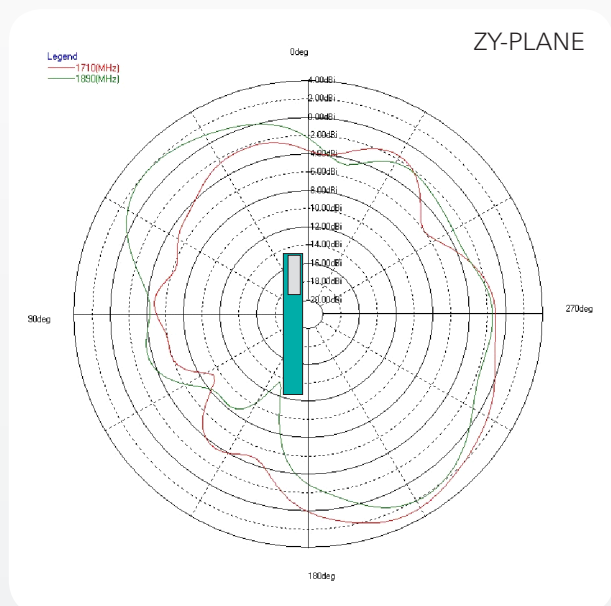
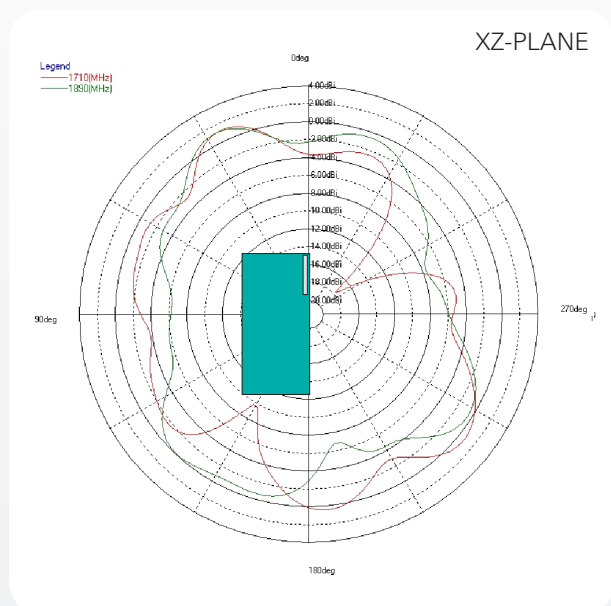


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Internal Quad Band PWB Antenna

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1710 – 1880 MHz Typical Free Space Radiation Patterns



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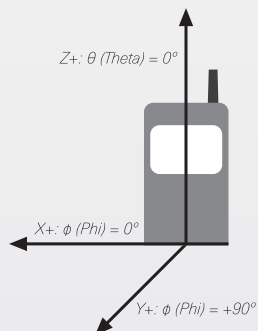
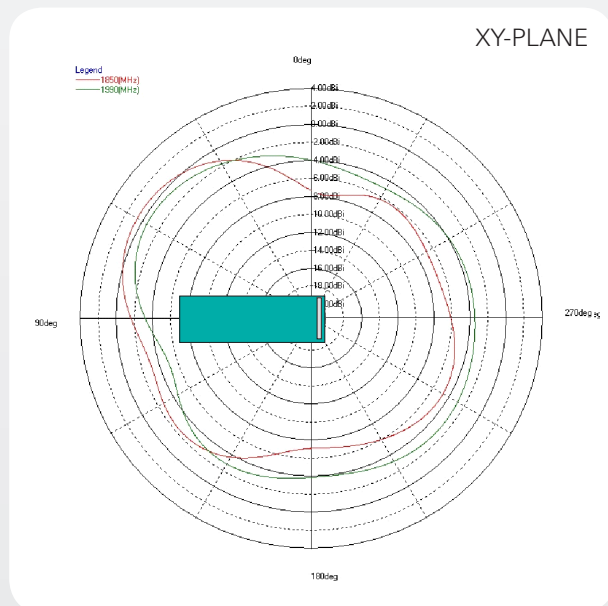
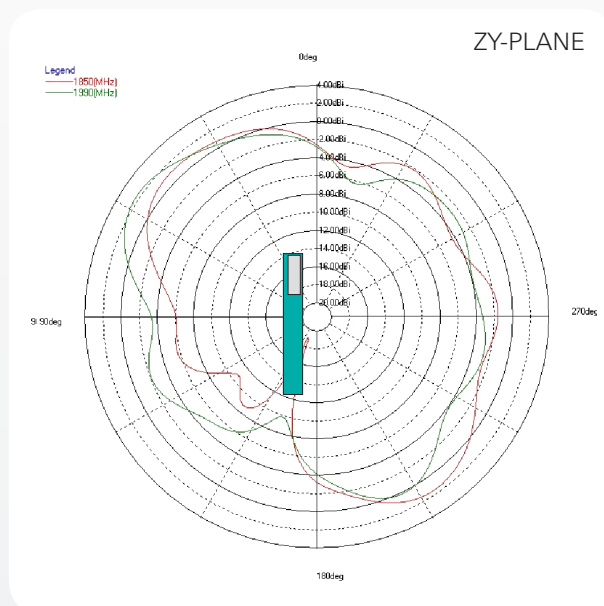
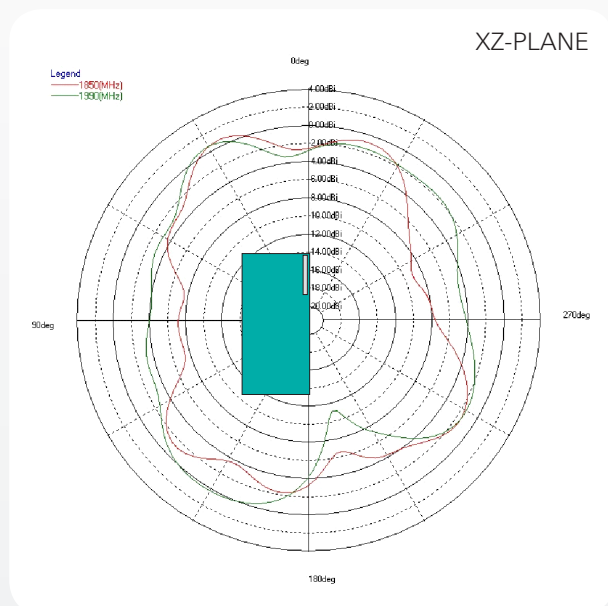


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Internal Quad Band PWB Antenna

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1850 – 1990 MHz Typical Free Space Radiation Patterns



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