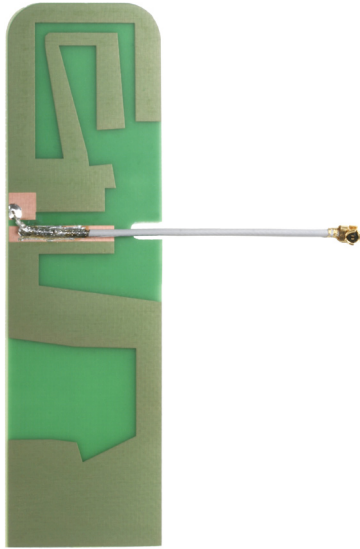


# Internal Quad Band PWB Antenna

(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 [ $\Omega$ ]	Operating Temperature [° C]
824 – 894	1.33	50 / -3.0	-7	50	-45 to +85

## Pulse Finland Oy

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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 [ $\Omega$ ]	Operating Temperature [ $^{\circ}$ 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 [ $\Omega$ ]	Operating Temperature [ $^{\circ}$ C]
1710 – 1880	3.75	50 / -3.0	-8	50	-45 to +85

## PCS : 1850 – 1990 MHz

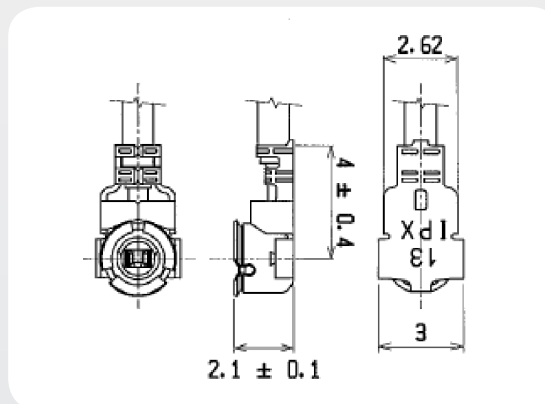
Typical free space performance, measured in test unit mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [ $\Omega$ ]	Operating Temperature [ $^{\circ}$ 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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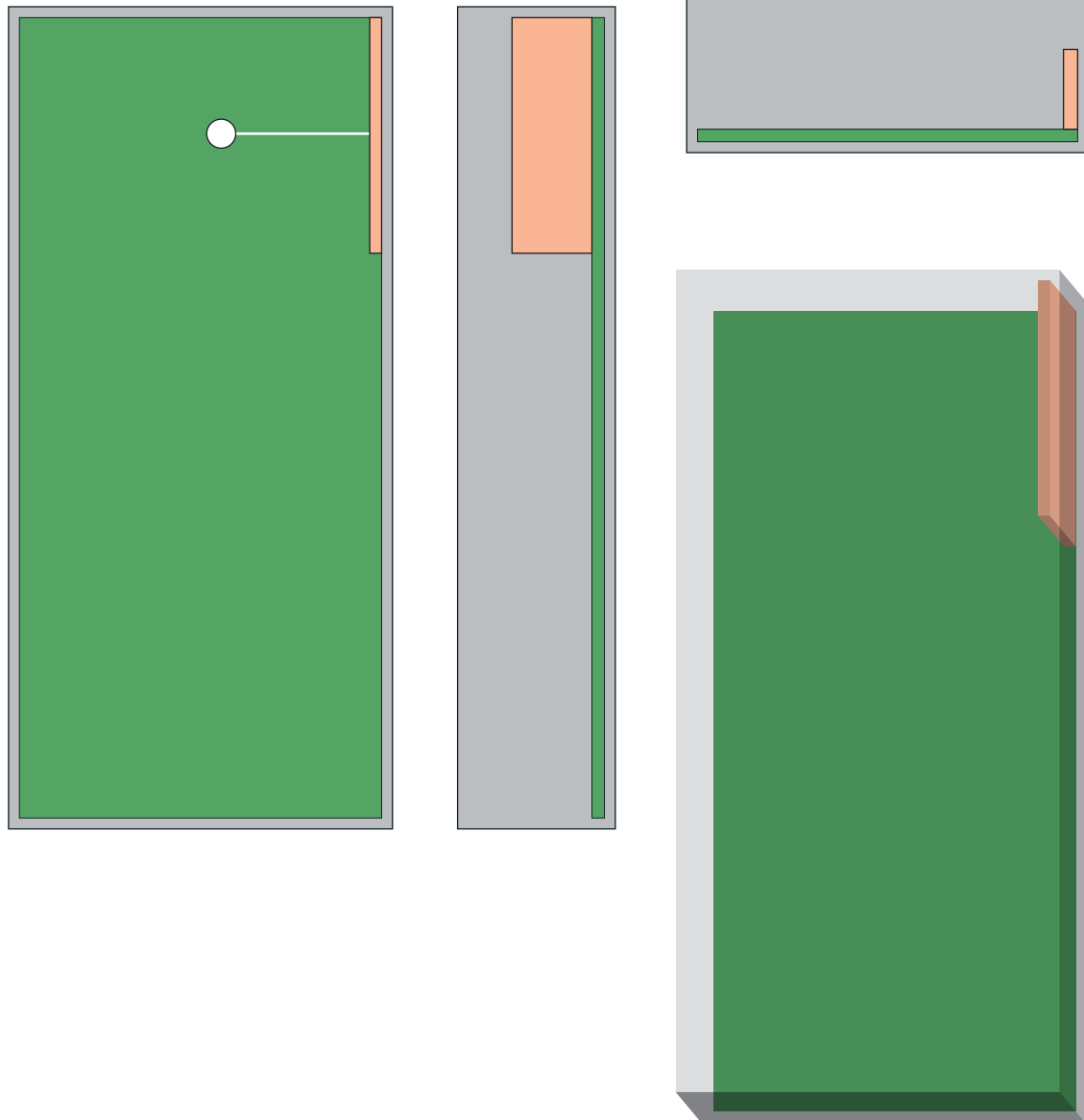


# Internal Quad Band PWB Antenna

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

## Test Unit and Antenna Location

Test unit size 150 x 100 x 40mm



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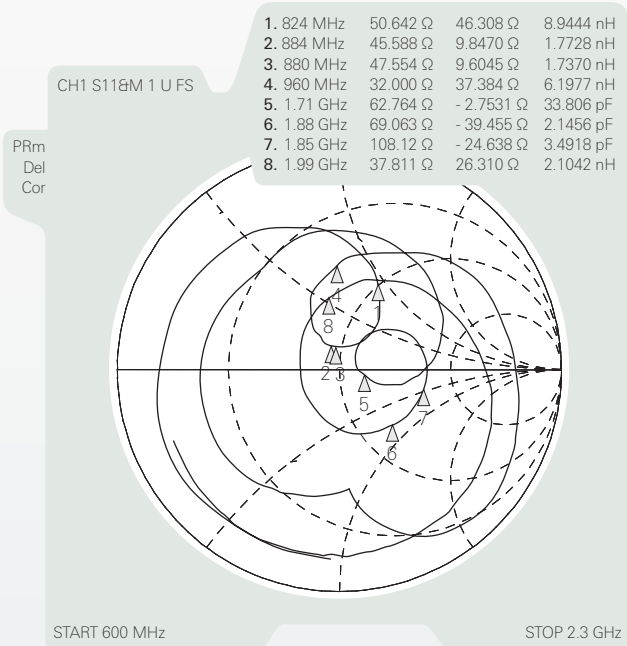
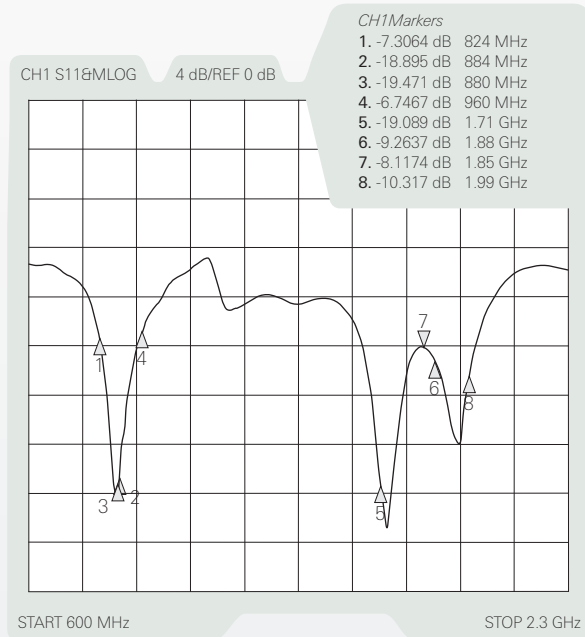
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# Internal Quad Band PWB Antenna

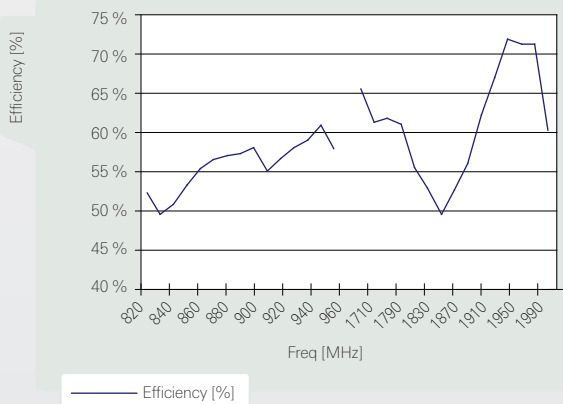
(25 x 87 x 0.2 mm, PWB antenna) Pulse Part Number: W3501

## 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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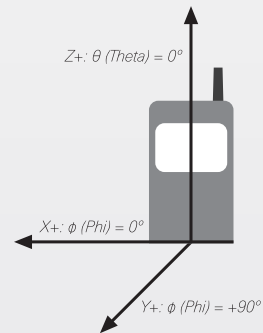
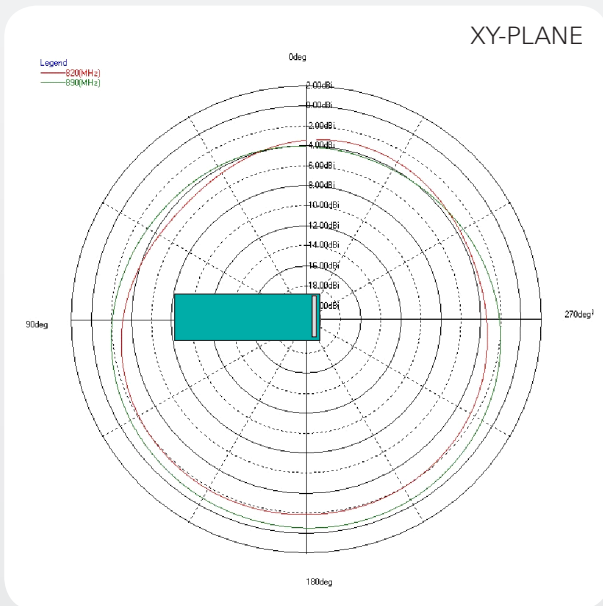
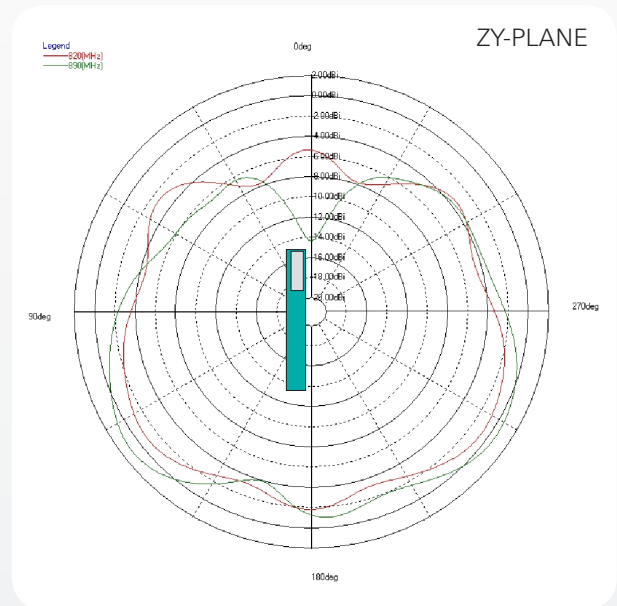
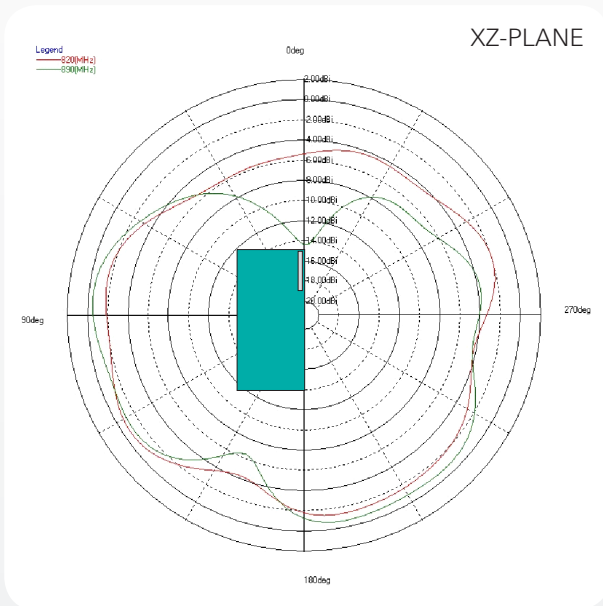
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# Internal Quad Band PWB Antenna

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

824 – 894 MHz Typical Free Space Radiation Patterns



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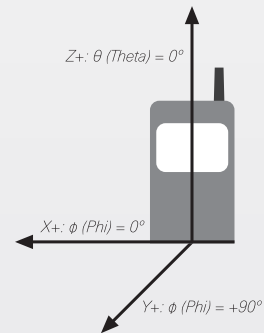
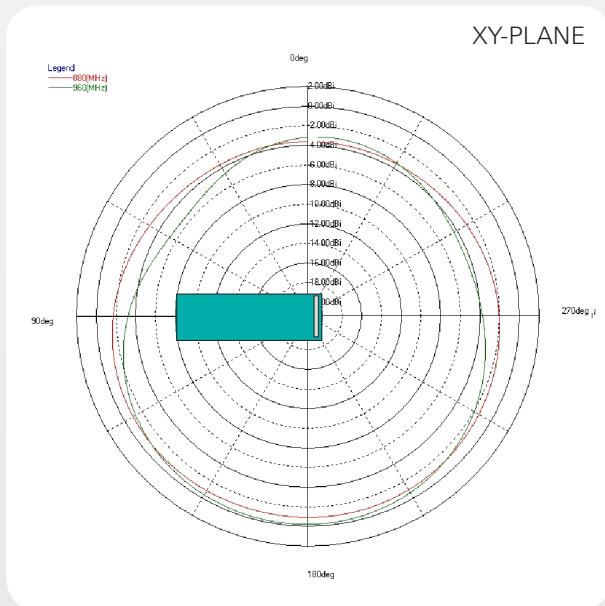
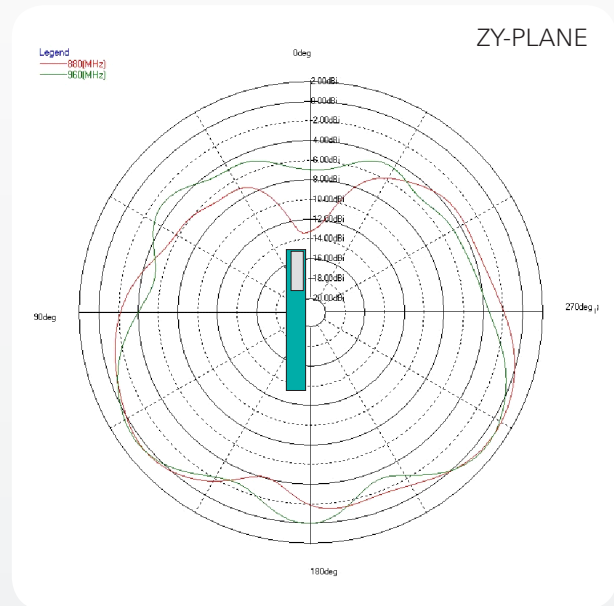
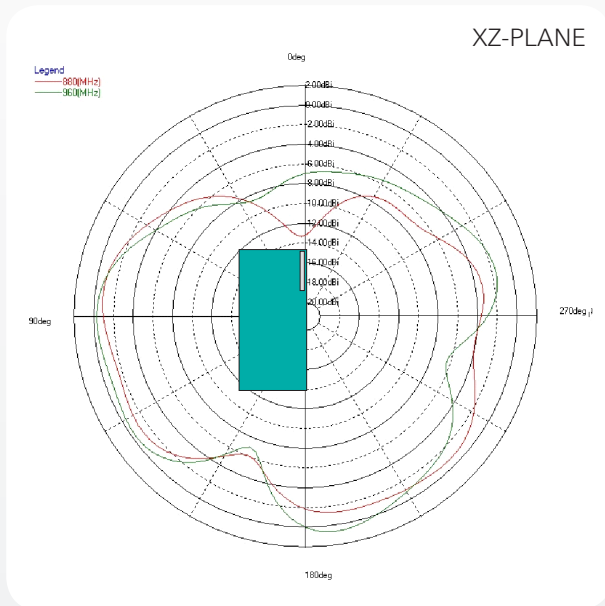
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# Internal Quad Band PWB Antenna

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

## 880 – 960 MHz Typical Free Space Radiation Patterns



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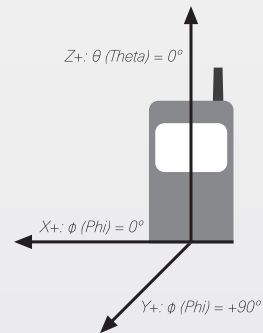
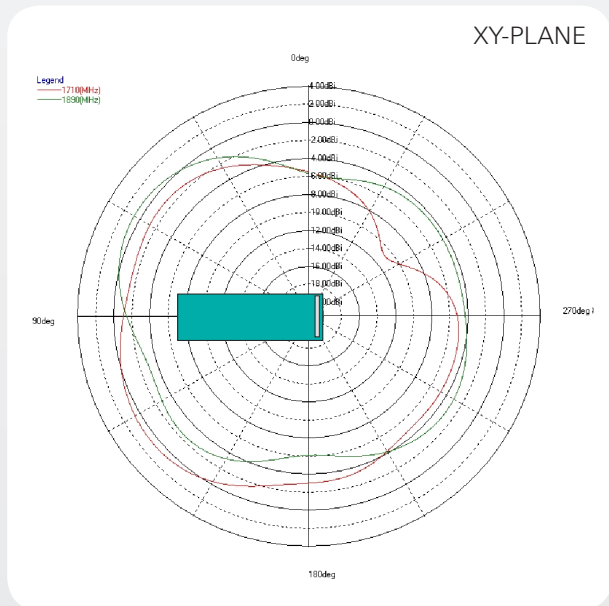
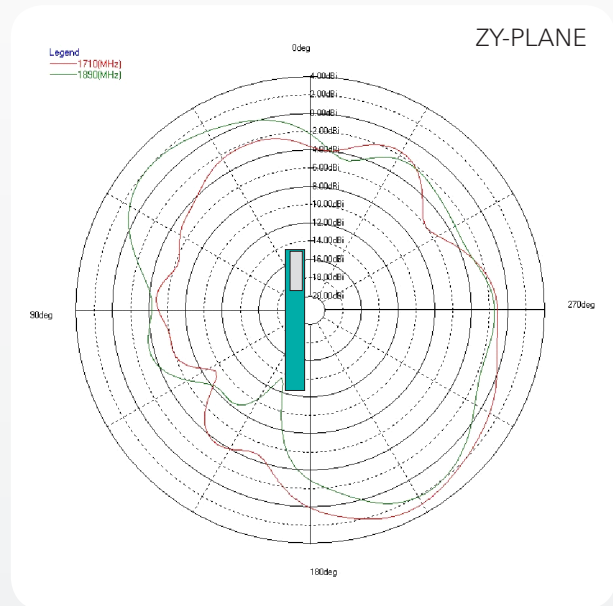
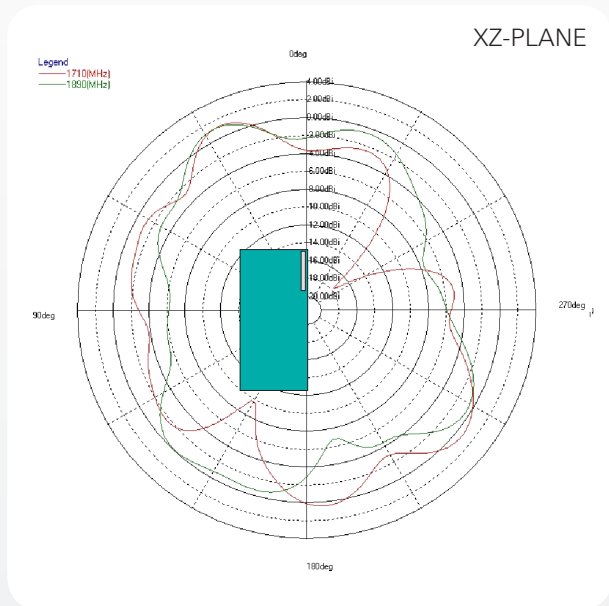
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# Internal Quad Band PWB Antenna

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

## 1710 – 1880 MHz Typical Free Space Radiation Patterns



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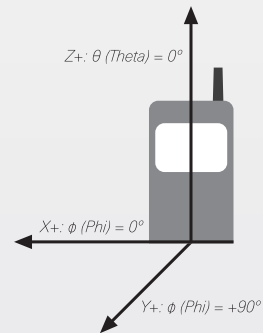
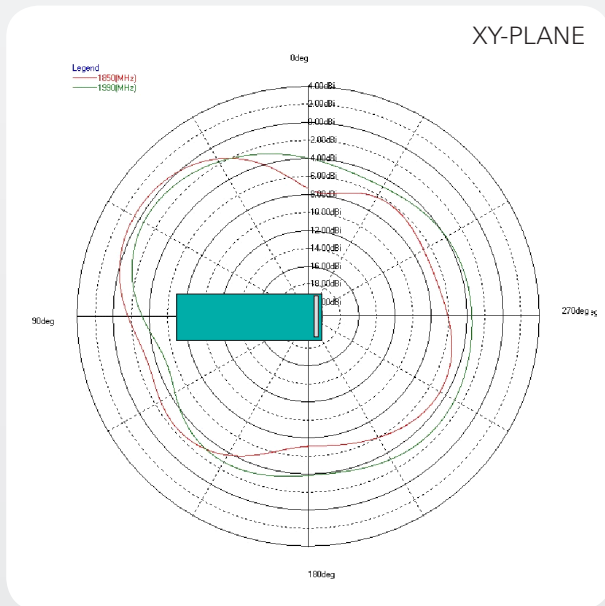
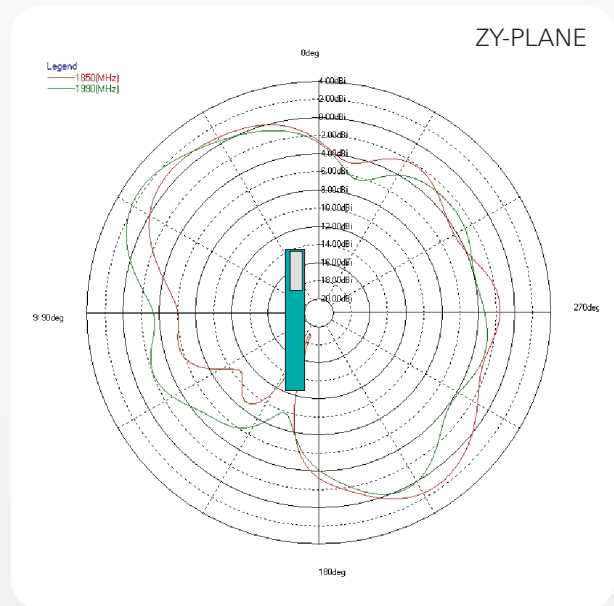
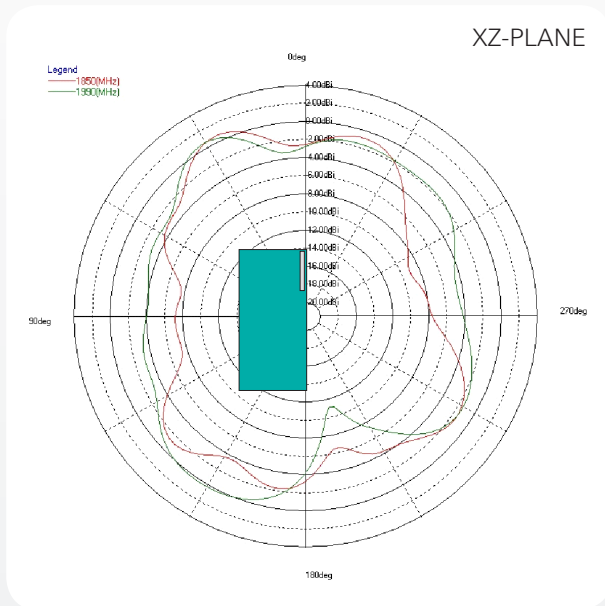
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# Internal Quad Band PWB Antenna

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

1850 – 1990 MHz Typical Free Space Radiation Patterns



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## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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