

Description: 2.4-2.5GHz PCB Antenna with coax feed

Series: Internal PCB

PART NUMBER: W3525BXXX



Features:

- 2400-2500 MHz
- Size: 10.7 x 47.7 x 0.8 mm
- Gain 1.5dBi
- Radiation pattern Omni
- Cable length, see page 2
- Connector U.FL compatible
- RoHS Compliant

Applications:

- 2.4GHz ISM band radios
- WiFi, Bluetooth, BLE, ZigBee
- Devices requiring internal antenna
- Security, IoT, Monitoring, Industrial applications

All dimensions are in mm / inches

Issue: 2003

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For more information:

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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This document covers all product variants of the following product family

Part Number	Cable Length	Adhesive Tape	Cable type	Connector type	Frequency	Max Gain
W3525B039	3.9" / 100 mm	N.A.	∅1.13mm Coax Cable, Gray color	I-PEX MHF or equivalent, Compatible with U.FL	2.4 GHz	2 dBi
W3525B052	5.2" / 132.1 mm	N.A.				
W3525B100	10" / 254 mm	N.A.				
W3525B039T	3.9" / 100 mm	3M 467 (T=0.05mm)				
W3525B0150T	150 mm	3M 467 (T=0.05mm)				
W3525B0250	250 mm	N.A.				

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole PCB+Cable
Frequency	2400-2500MHz
Nominal Impedance	50 Ω
VSWR	2.5:1
Radiation Pattern	Omni
Gain	1.5dBi
Efficiency	55%
Polarization	Vertical
Power Withstanding	1W

MECHANICAL SPECIFICATIONS

Overall Length	10.7x47.7x0.8mm
Antenna Material	PCB
Connector type	I-PEX or equivalent
Cable type	MI-113 Gray

ENVIRONMENTAL SPECIFICATIONS

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

OTHER SPECIFICATIONS

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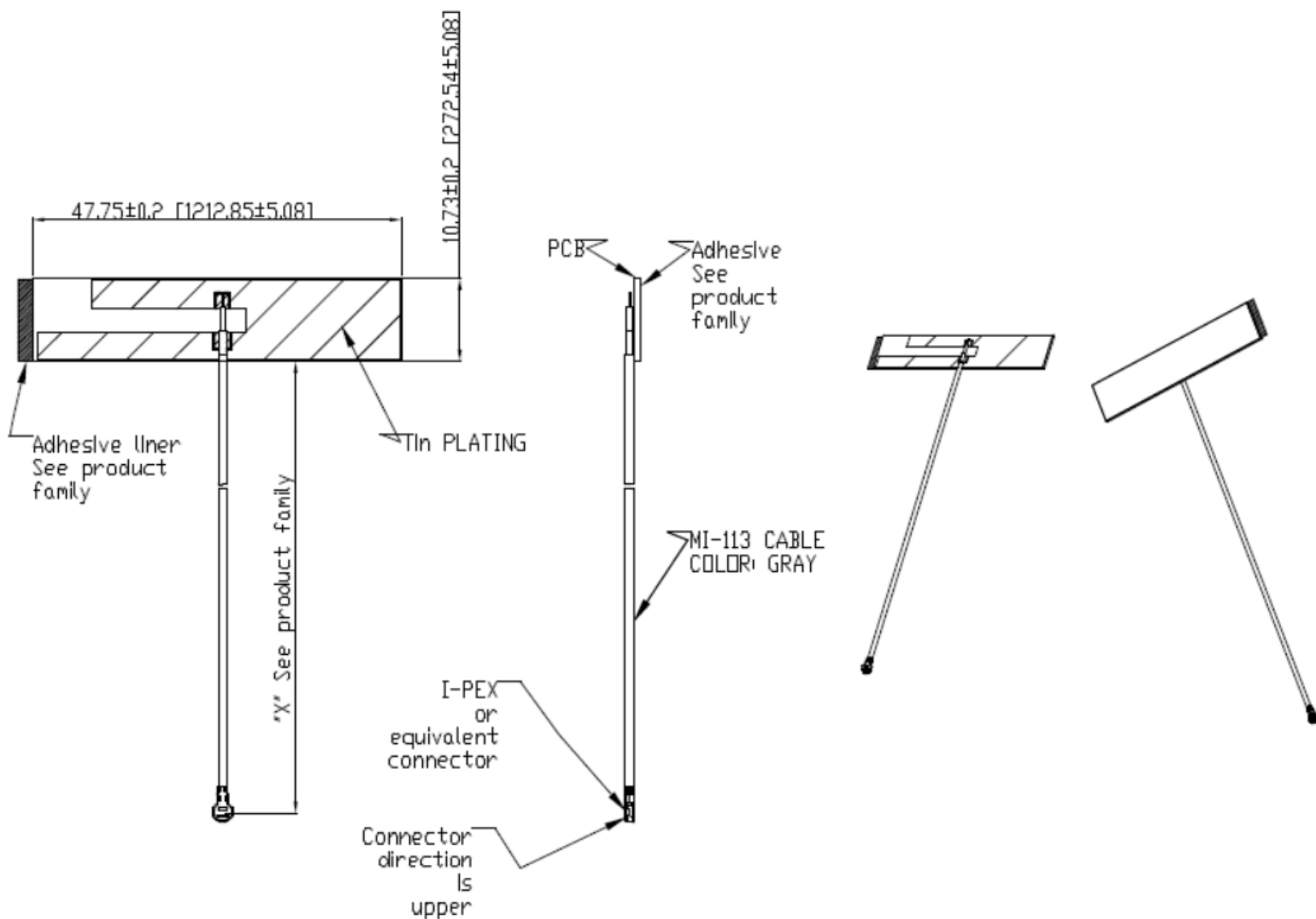
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MECHANICAL DRAWING



Part Number	Frequency(GHz)	Max Gain(dBi)	Impedance(ohm)	PWB Length(in/mm)	Cable Length(in/mm)	Adhesive Tape
W3525B039	2.4	2	50	1.87/47.7	3.9/100	N/A
W3525B052	2.4	2	50	1.87/47.7	5.2/132.1	N/A
W3525B100	2.4	2	50	1.87/47.7	10/254	N/A
W3525B039T	2.4	2	50	1.87/47.7	3.9/100	Required

Dimension unit: mm/inch

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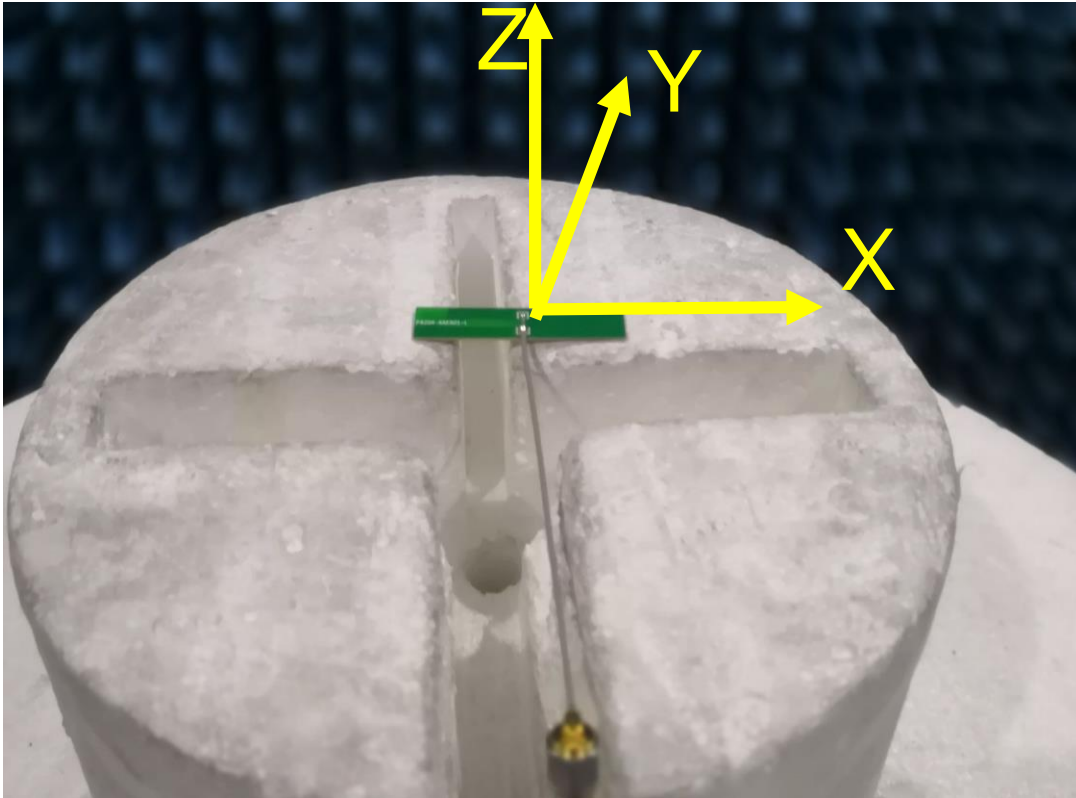
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TEST SETUP



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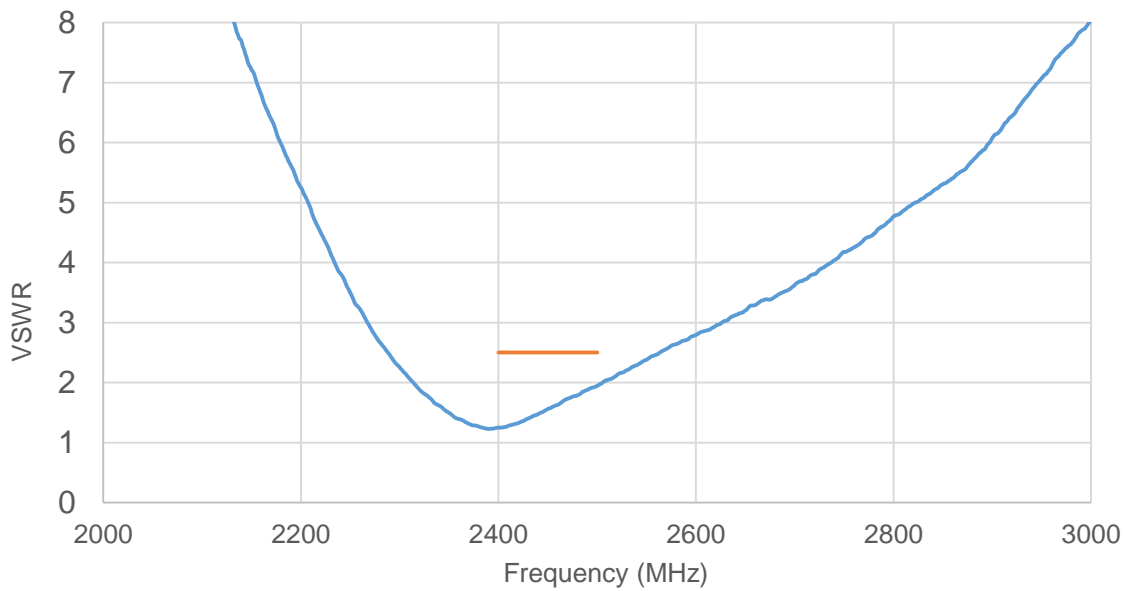
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CHARTS

VSWR



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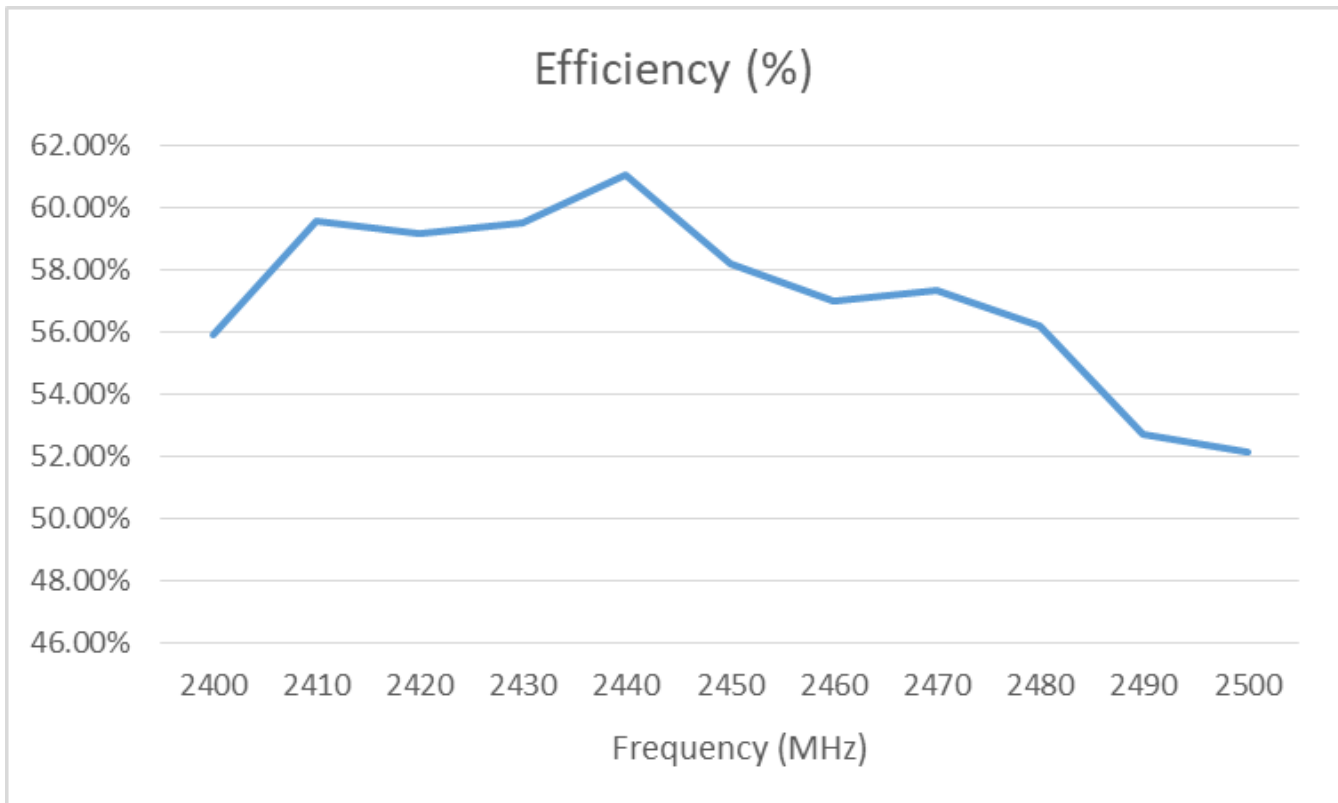
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CHARTS

Efficiency



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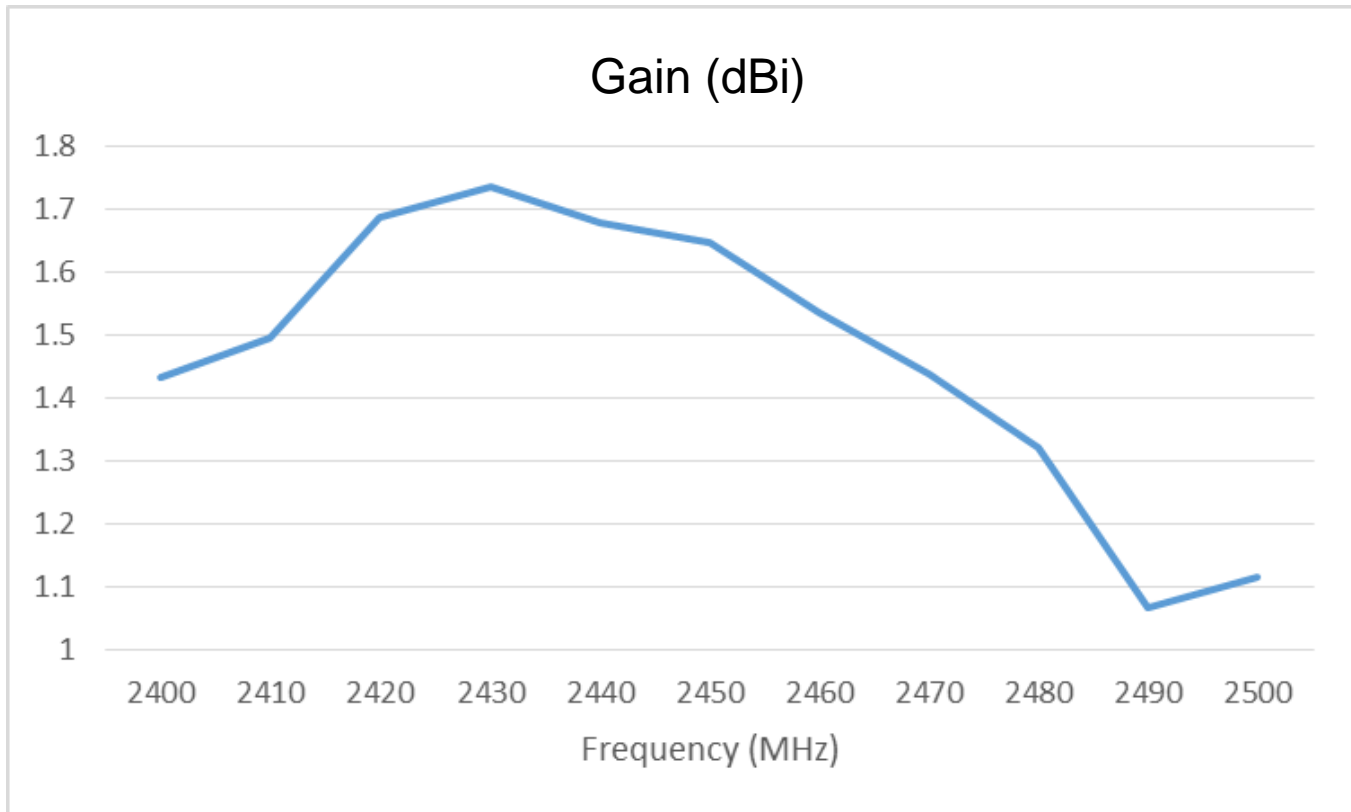
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CHARTS

Gain



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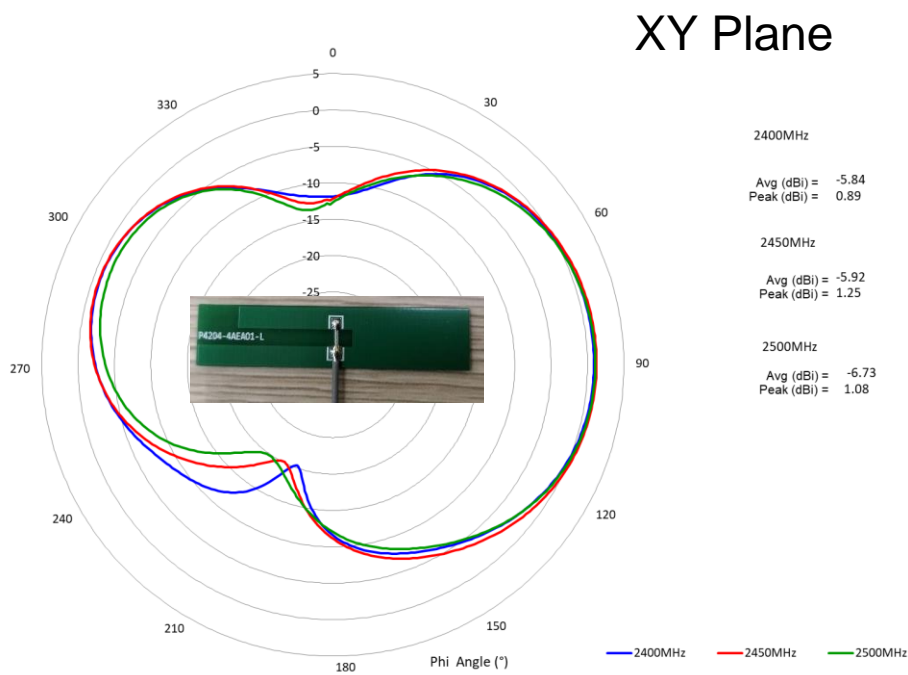
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CHARTS

Free Space Radiation Pattern



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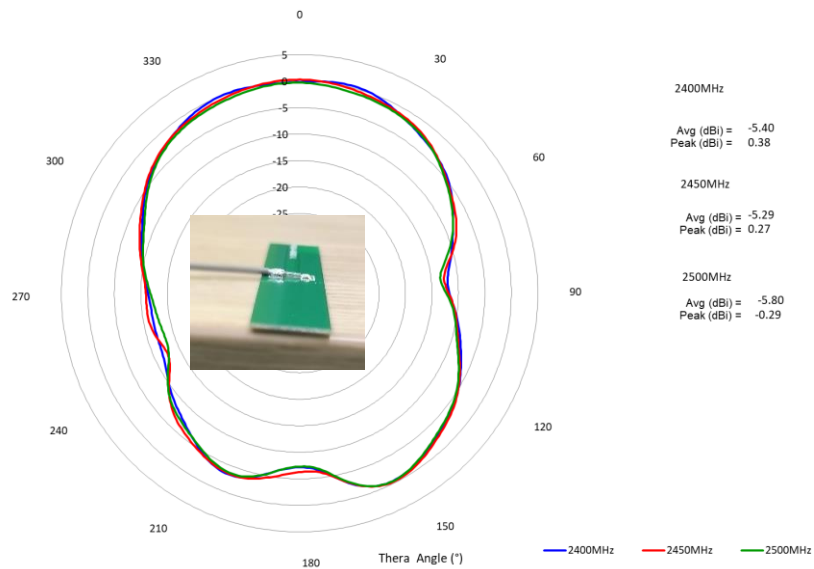
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CHARTS

Free Space Radiation Pattern

XZ Plane



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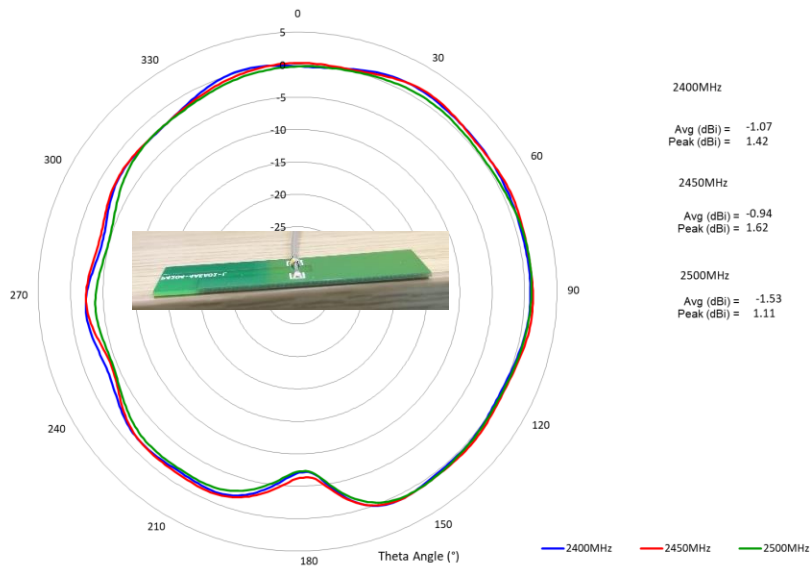
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CHARTS

Free Space Radiation Pattern

YZ Plane



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PACKAGING

For W3525B039 and W3525B039T and W3525B052

10pcs antennas packing packed in 1 sealed bag

10pcs sealed bags (total 100pcs antennas) packed in 1 foam bag

12pcs foam bags (total 1200pcs antennas) packed in 1 carton

460x235x140mm

For W3525B100

5pcs antennas packing packed in 1 sealed bag

20pcs sealed bags (total 100pcs antennas) packed in 1 foam bag

12pcs foam bags (total 1200pcs antennas) packed in 1 carton

460x235x140mm

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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