

**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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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,<br>Gray color | I-PEX MHF or equivalent,<br>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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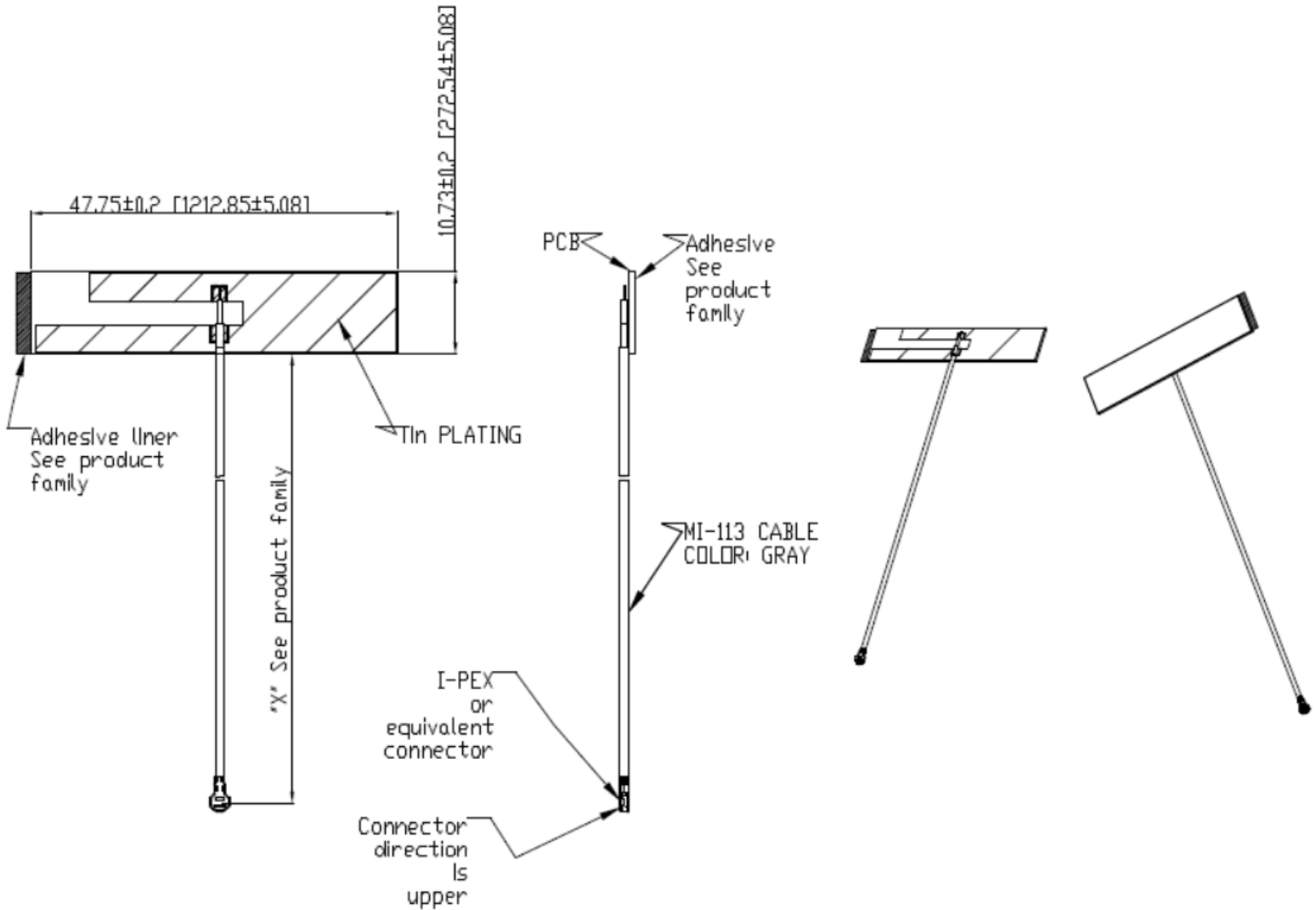
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**MECHANICAL DRAWING**



| 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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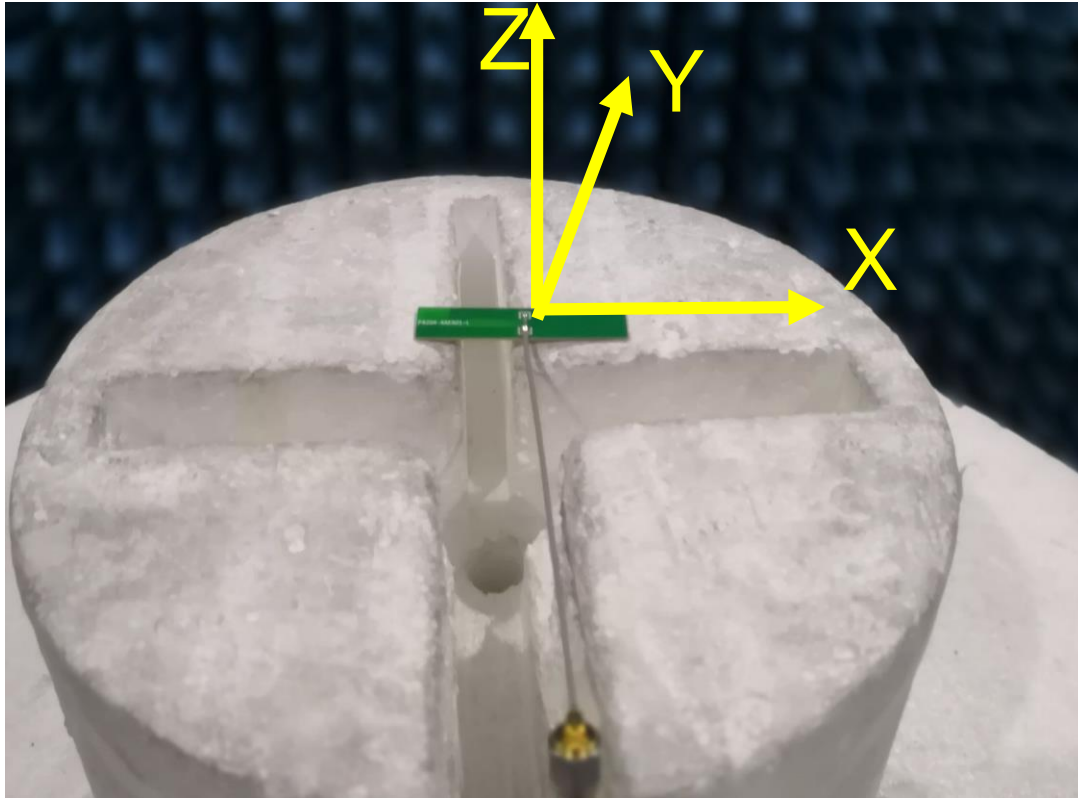
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**TEST SETUP**



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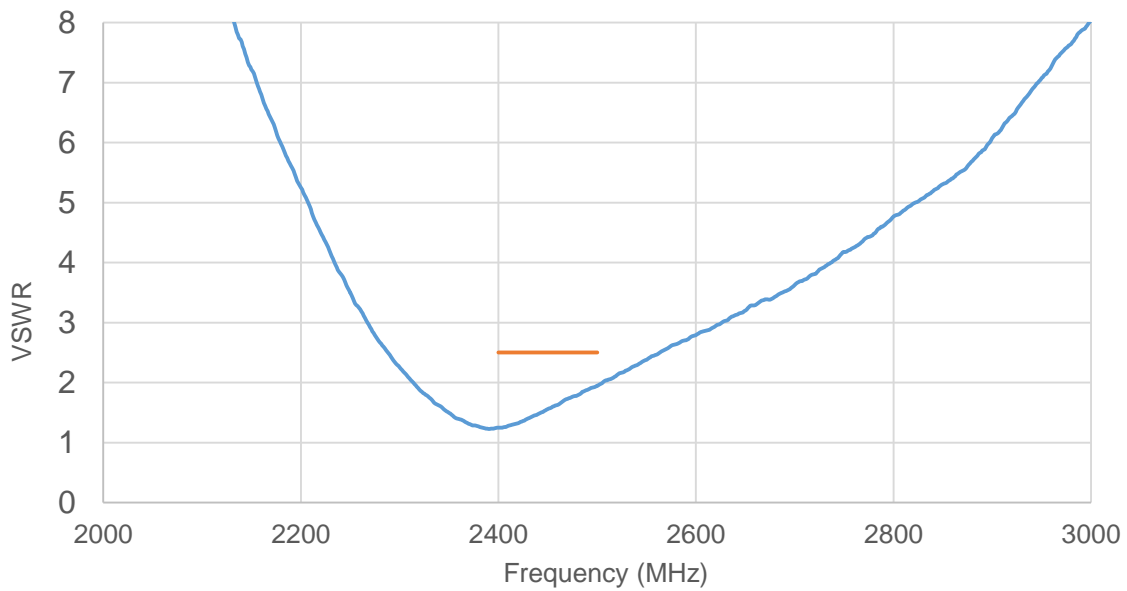
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CHARTS

VSWR



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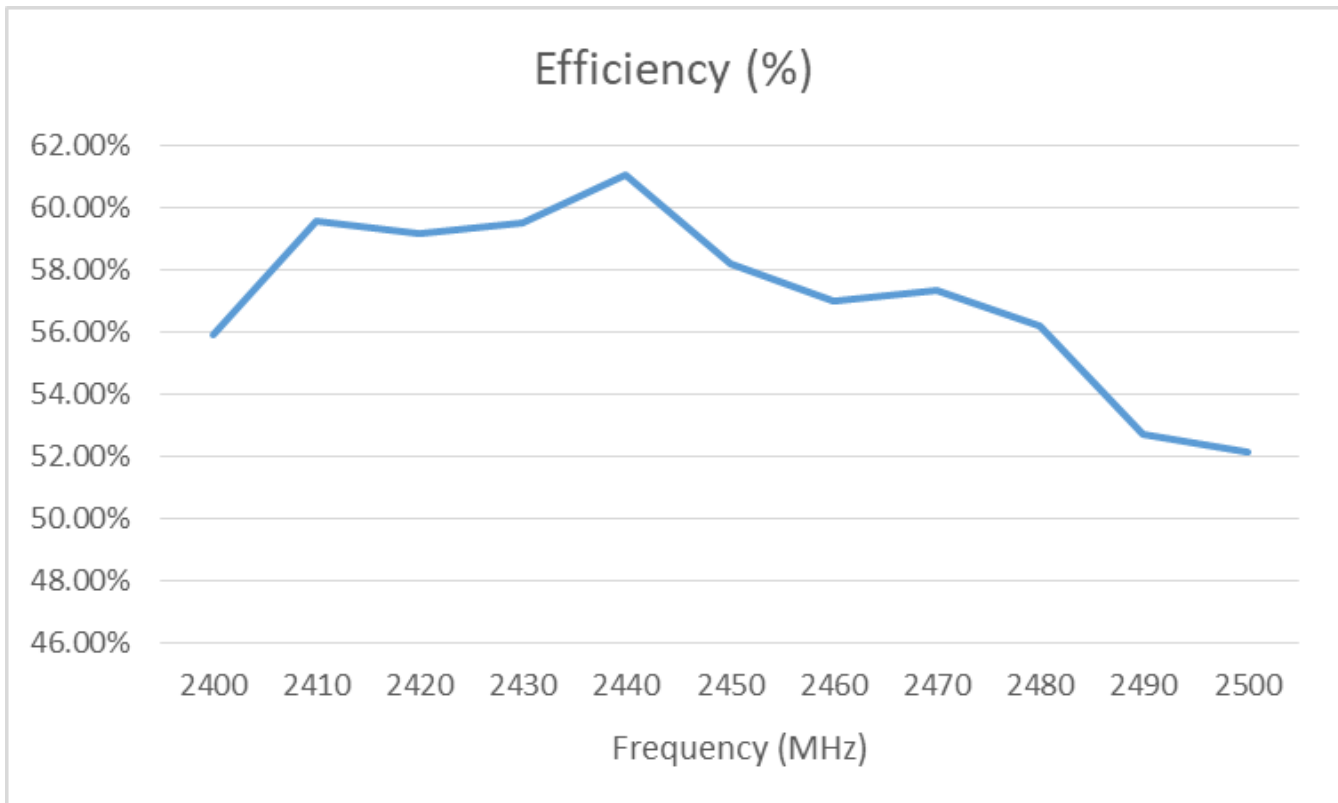
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CHARTS

Efficiency



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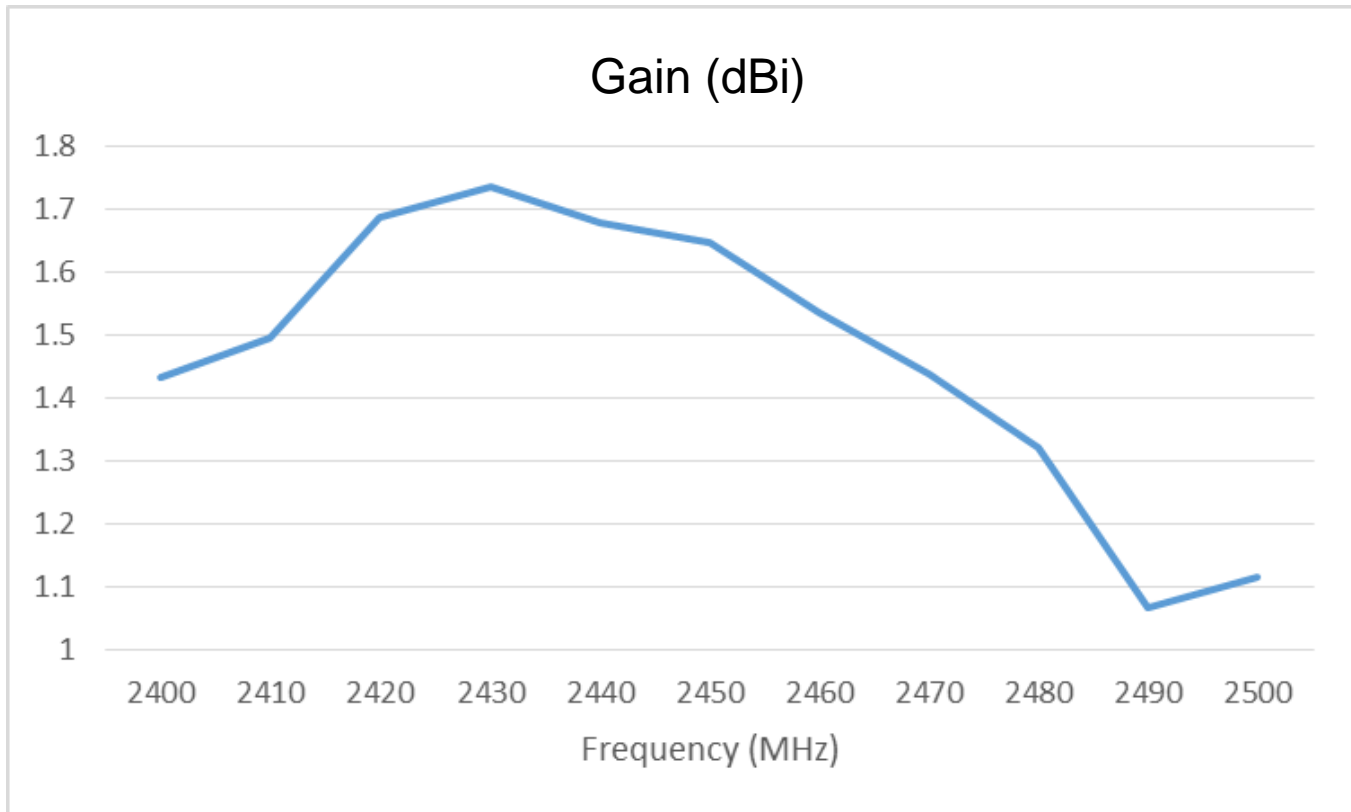
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CHARTS

Gain



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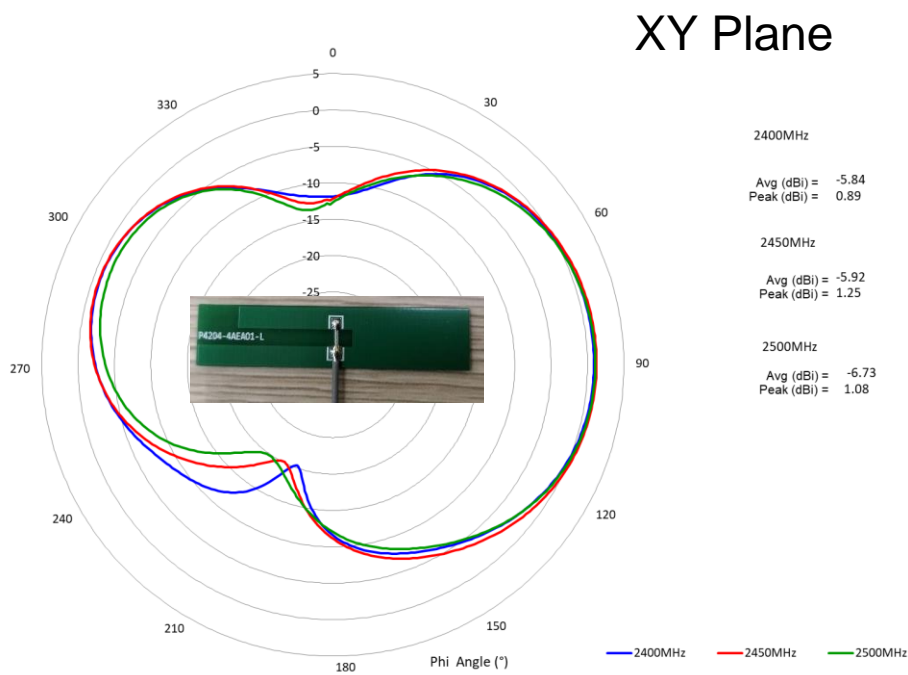
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**CHARTS**

**Free Space Radiation Pattern**



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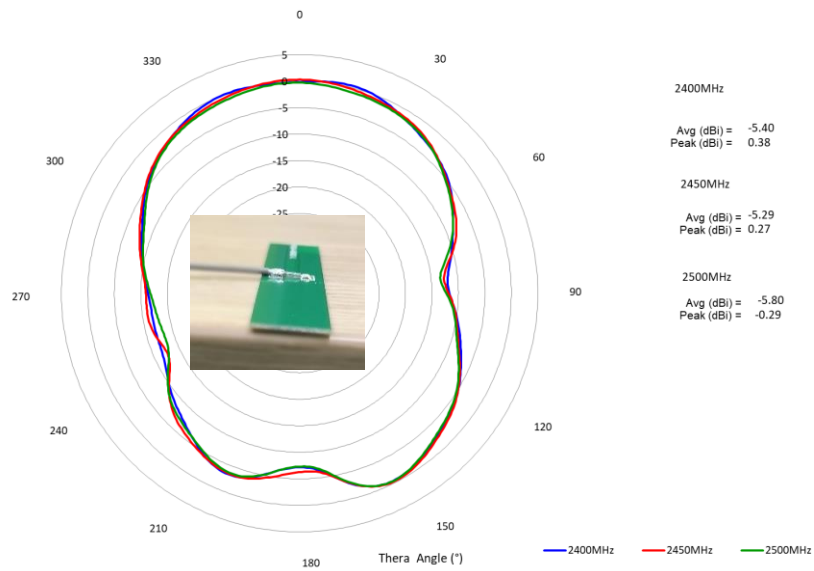
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**CHARTS**

Free Space Radiation Pattern

XZ Plane



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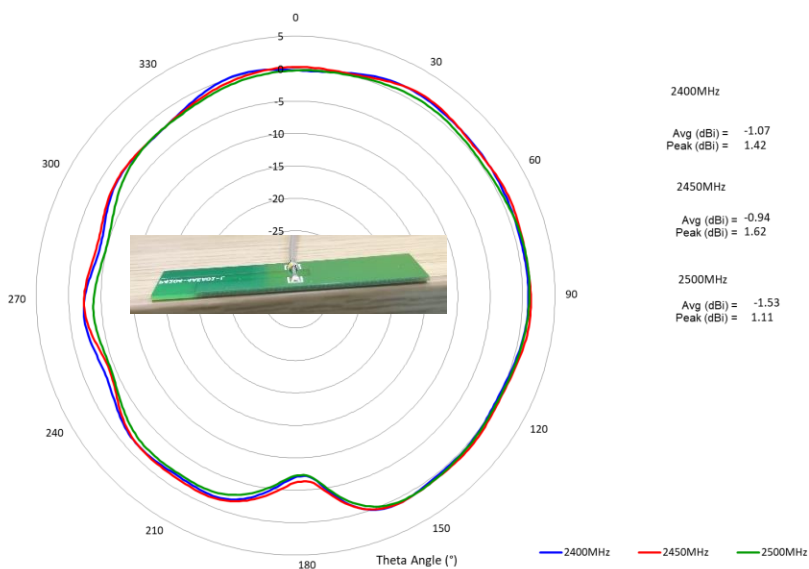
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**CHARTS**

**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 «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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