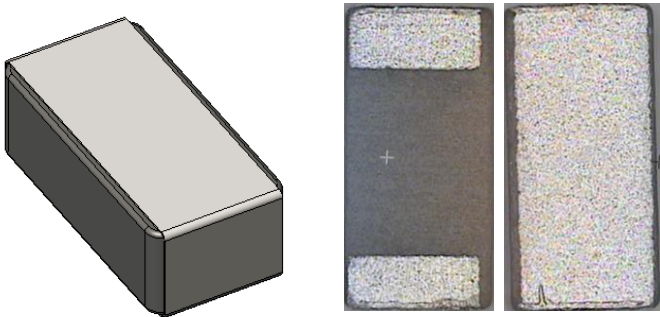


Description: Ceramic Dual Band WLAN

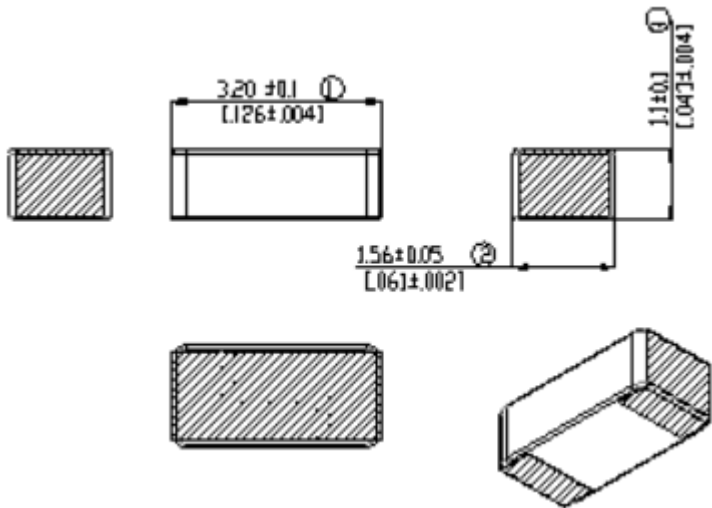
Series: Antenna

PART NUMBER: W3079



Features:

- High efficiency and high peak gain
- Low Profile
- Compact size (3.2x1.56x1.1mm)
- SMD compatible



Applications:

- IEEE 802.11 a/b/g
- Bluetooth, Zigbee
- 2.4GHz and 5GHz WLAN
- 2.4GHz and 5GHz ISM band

All dimensions are in mm / inches

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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



Description: Ceramic Dual Band WLAN**Series: Antenna****PART NUMBER: W3079****ELECTRICAL SPECIFICATIONS**

| | |
|-------------------------------------|----------------------------|
| Frequency | 2.4–2.4835 / 5.15–5.85 GHz |
| Nominal Impedance | 50 Ω |
| VSWR | < 1.9 / < 2.5 |
| Gain (peak) | 2.4 / 5.7 dBi +/- 1 dB |
| Total efficiency (peak) | 70 / 77 % |
| Ground clearance area under antenna | 6.0 x 11.00mm |

MECHANICAL SPECIFICATIONS

| | |
|----------------------------|-----------------|
| Weight | 0,033 g |
| Overall Dimensions (L*W*H) | 3.2*1.56*1.1 mm |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|-------------|
| Operating temperature | -40-+85 ° C |
| MSL | Level3 |

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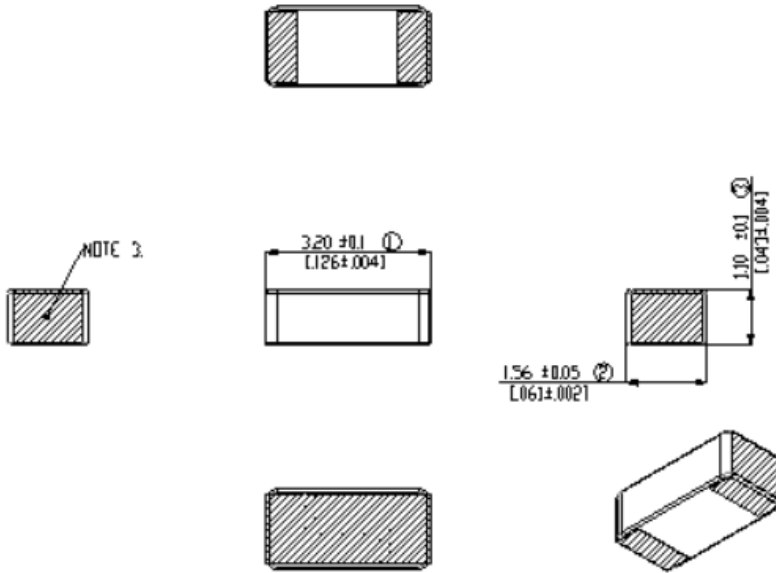
Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

MECHANICAL DRAWING

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NOTES:

- 1. RoHS compliant
- 2. Dimension numbered 1-3
- 3. Ag metallization on hatched areas

| ROHS request | | | | | | | |
|--------------|-----|------|------|------|------|------|--------|
| Item | Cd | Hg | Pb | Cr6+ | PBB | PBDE | Other |
| PPW=C | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | ReXXXX |

(Elements must be free of Br, Cl, Hg, Pb, Sn ppm in homogeneous material)

Functional characteristic key:
Process capability studies required (total) pcs
Process capability studies (material and ongoing statistical process control) required (total) pcs

| Rev | Description |
|-----|-----------------------------------|
| A | Several updates (class A release) |

Pulse Systems
Pulse Electronics
Bangkok, Thailand
www.pulseelectronics.com

| | |
|-----------------------------------|----------------------------------|
| Scale: 14:1 (A3) | Sheet number: 1/1 |
| Document number: W3079 | General tolerance: ECTOPW number |
| Part Name: W3079 antenna assembly | Drawn: Jariwut |
| | Checked: Jariwut |
| | Approved: Jariwut |
| | Issue Date: 20150929 |
| | Part Version: A |
| | Document Version: V01 |
| | Rev Date Desc |

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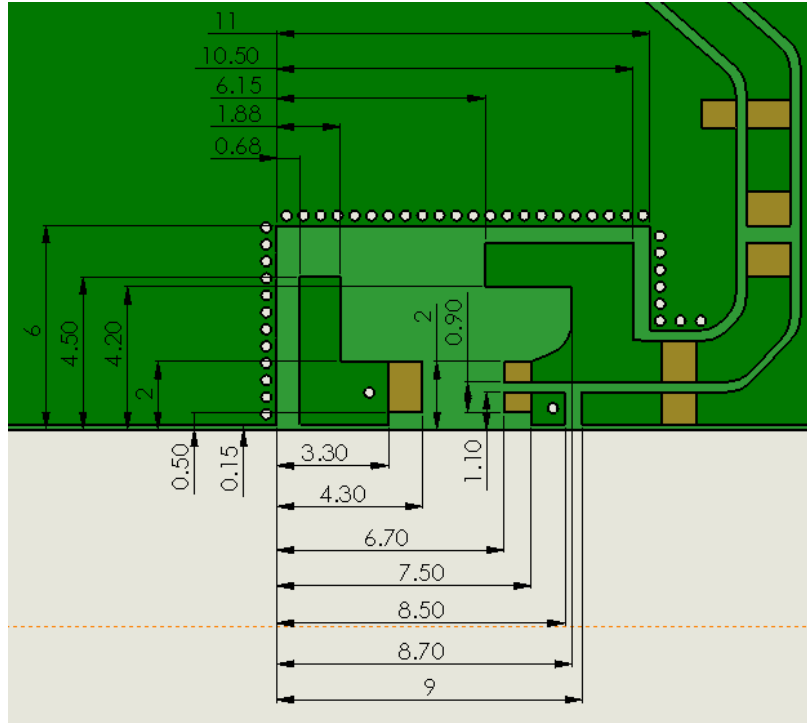
Description: Ceramic Dual Band WLAN

Series: Antenna

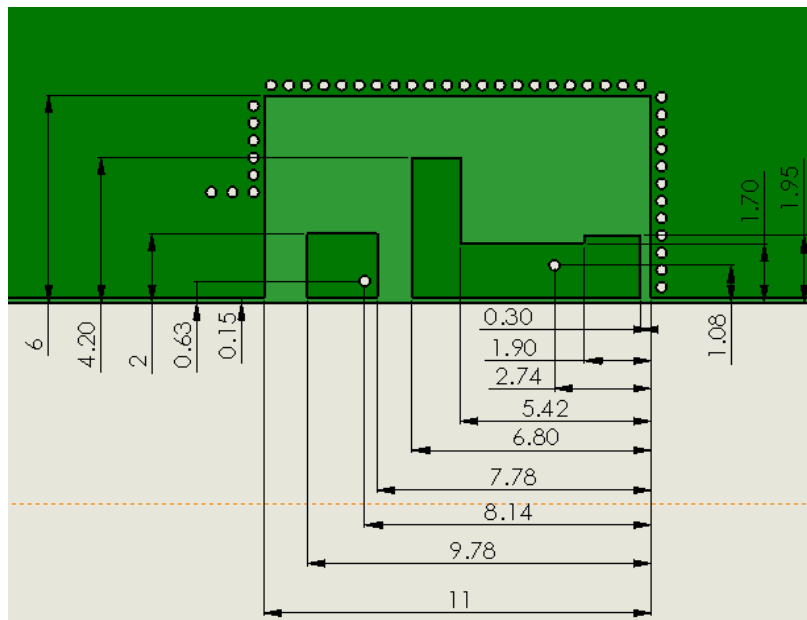
PART NUMBER: W3079

OTHER SPECIFICATIONS

Top side



Bottom side



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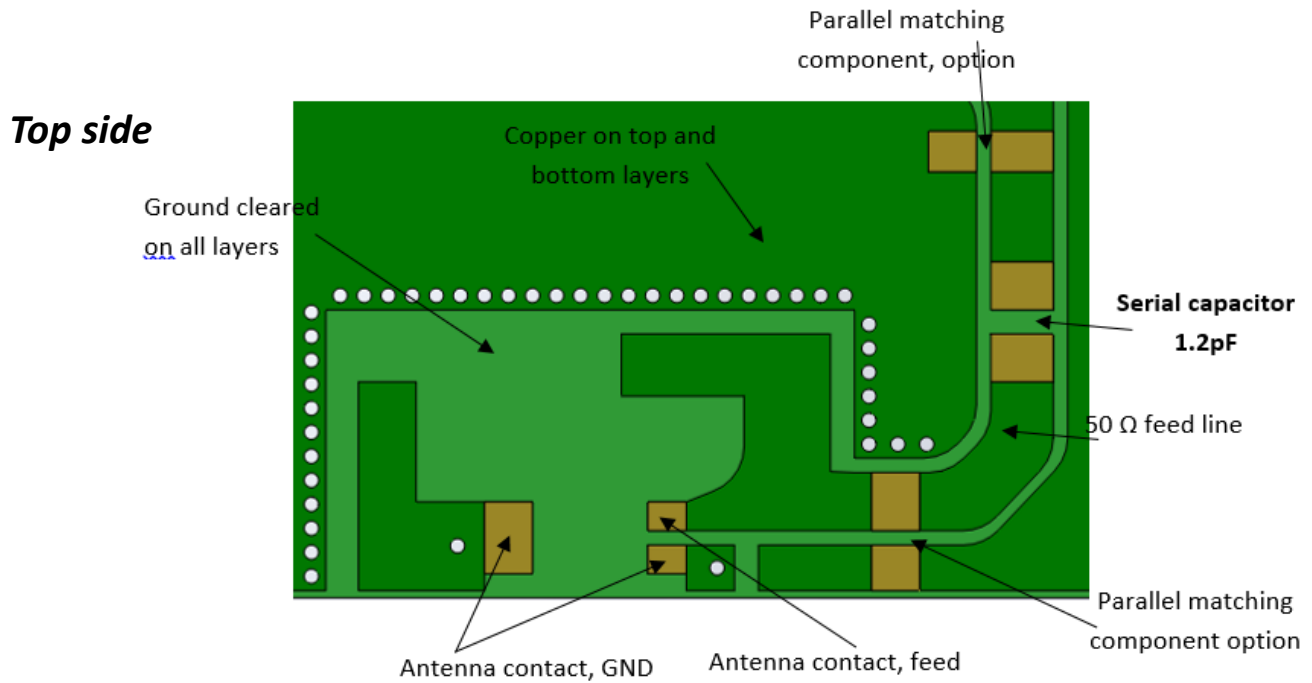
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Description: Ceramic Dual Band WLAN

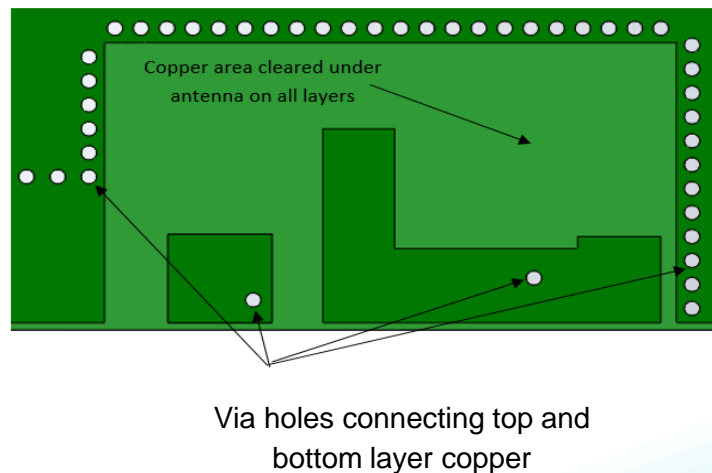
Series: Antenna

PART NUMBER: W3079

OTHER SPECIFICATIONS



Bottom side



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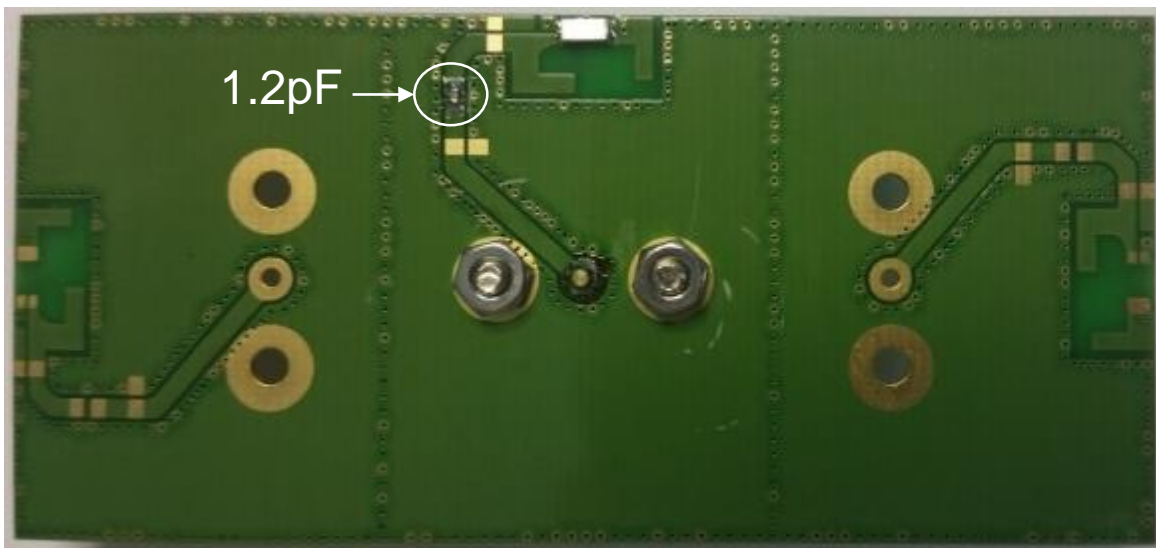
Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

Recommended Antenna Position on PCB

- The recommended antenna location is the center edge of the longer PCB side.
- All measurement results of W3079 are measured on the 37x80mm evaluation board with matching circuit (series 1.2pF capacitor).
- To construct a fine matching on customer PCB design, proper impedance matching values should be obtained with a final customer PCB dimension, surrounded metallic components, and a package condition (with final assembly condition).
- The recommended minimum PCB size is around 35x35mm to obtain similar RF performances of datasheet. For more discussion, please contact to Pulse electronics.



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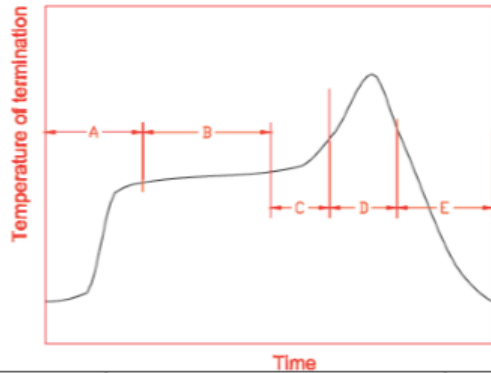
Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

OTHER SPECIFICATIONS

Recommended reflow soldering



| | | | |
|---|------------------------------------|--------------------------------------|---------------|
| A | 1 st rising temperature | The normal to Preheating temperature | 30s to 60s |
| B | Preheating | 140°C to 160°C | 60s to 120s |
| C | 2 nd rising temperature | Preheating to 200°C | 20s to 40s |
| D | Main heating | if 220°C | 50s~60s |
| | | if 230°C | 40s~50s |
| | | if 240°C | 30s~40s |
| | | if 250°C | 20s~40s |
| E | Regular cooling | if 260°C | 20s~40s |
| | | 200°C to 100°C | 1°C/s ~ 4°C/s |

*reference: J-STD-020C

(1) Soldering gun procedure

Note the follows, in case of using solder gun for replacement.

(a) The tip temperature must be less than 350°C for the period within 3 seconds by using soldering gun under 30 W.

(b) The soldering gun tip shall not touch this product directly.

(2) Soldering volume

Note that excess of soldering volume will easily get crack the body of this product.

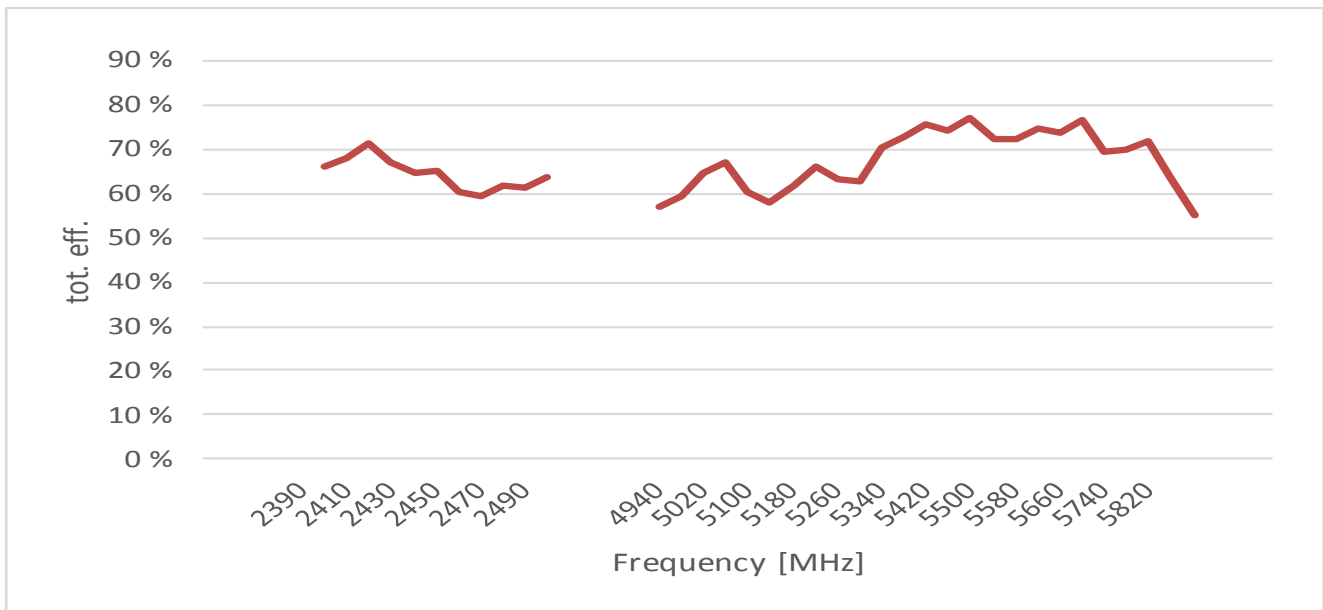
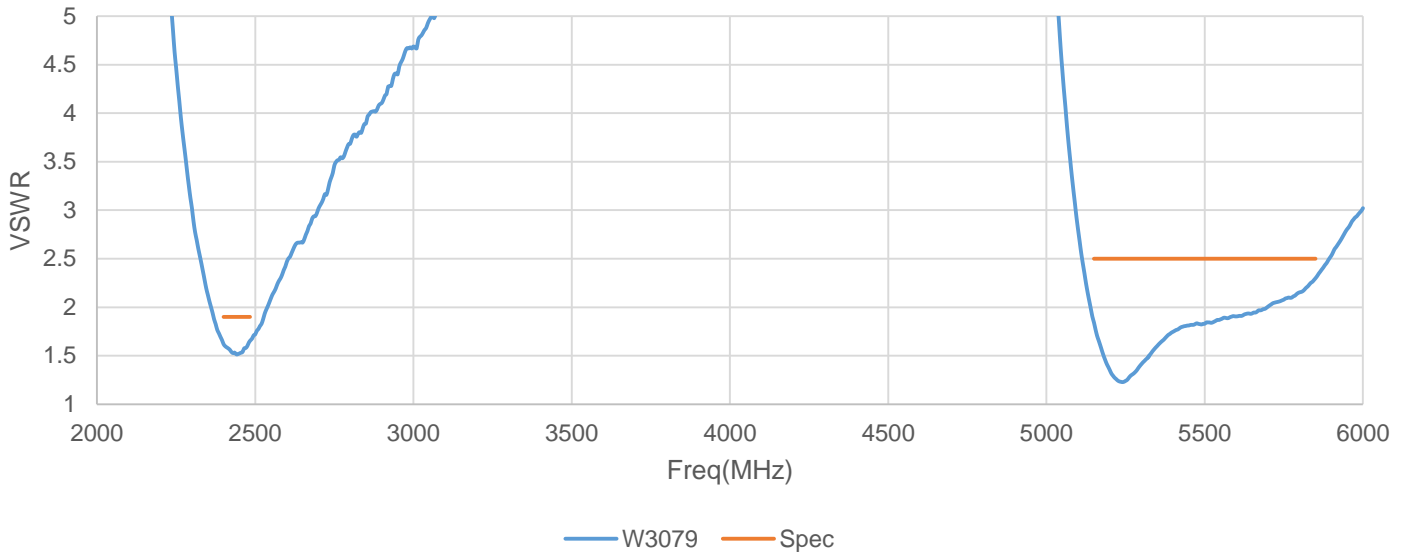
Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

CHARTS

W3079*



* Free space measurements on Pulse reference test PCB

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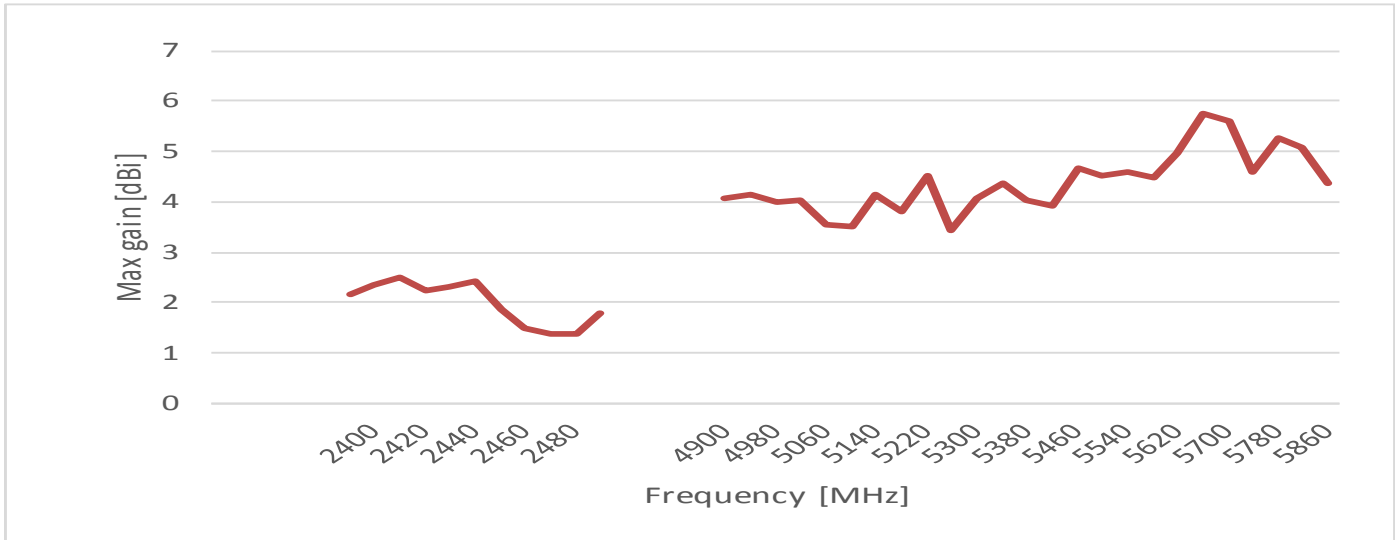
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CHARTS



* Free space measurements on Pulse reference test PCB

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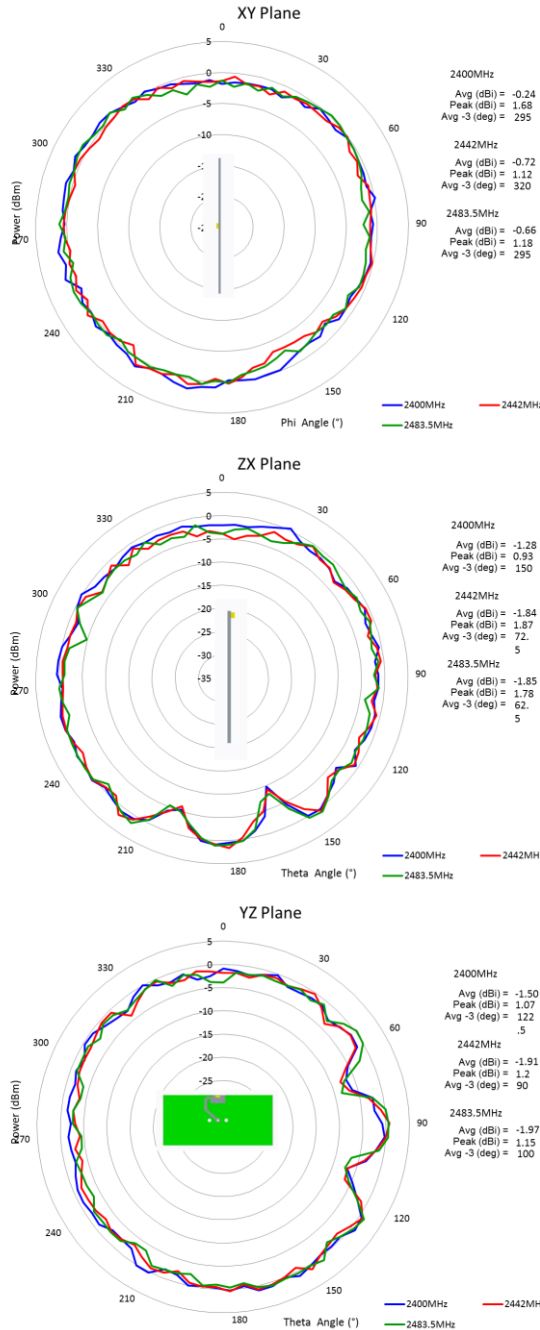
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Series: Antenna

PART NUMBER: W3079

CHARTS



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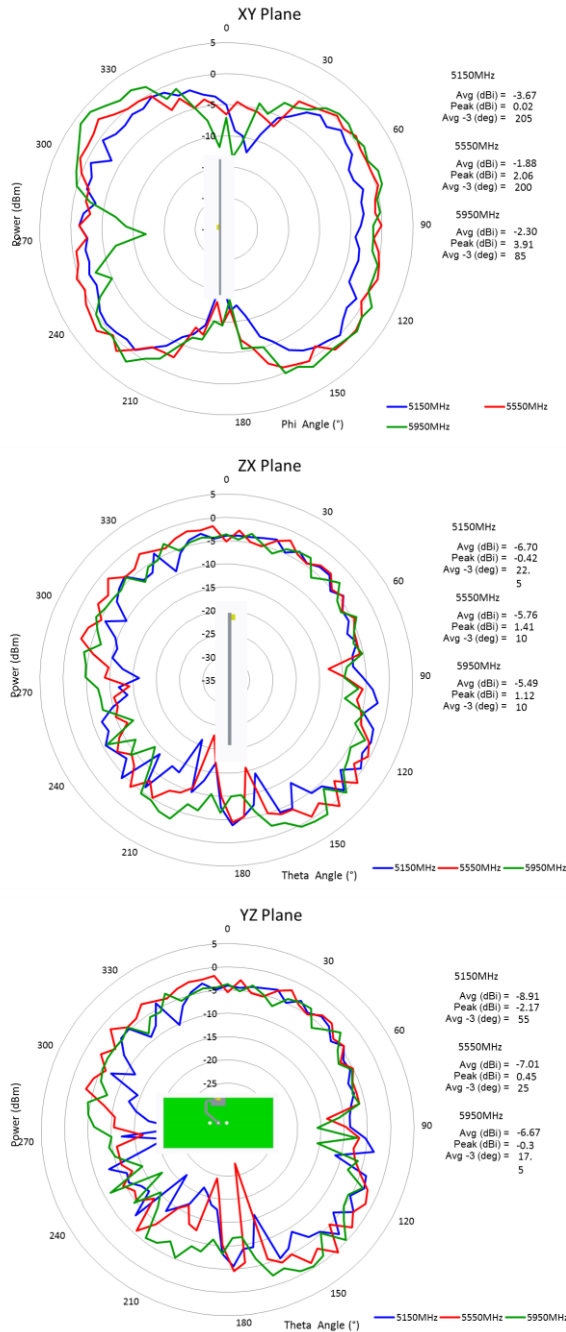
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CHARTS



* Free space measurements on Pulse reference test PCB

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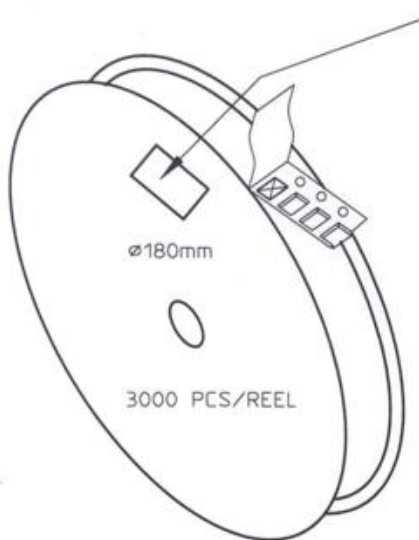
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Description: Ceramic Dual Band WLAN

Series: Antenna

PART NUMBER: W3079

PACKAGING



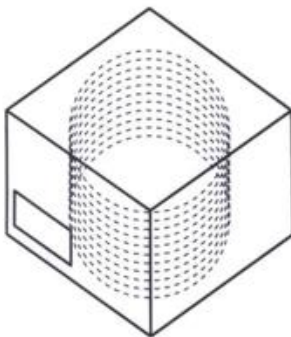
REEL LABEL INFORMATION:
 - TRACEABILITY
 - QUANTITY
 - PRODUCT CODE

CARRIER TAPE H85-00125
 width=8,00 depth=1,22
 COVER TAPE H85-00126
 width=5,60

LENGTH OF TAPE:

- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



| | |
|--------------------------------|------------|
| BOX H85-00128 (182x182x132) | 1 pcs |
| - LABEL | 1 pcs/BOX |
| REEL H85-00127 (D180, W12) | 10 pcs |
| - REEL LABEL | 1 pcs/REEL |

ASSEMBLY

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- 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.);

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- 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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Электронная почта: org@eplast1.ru

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