

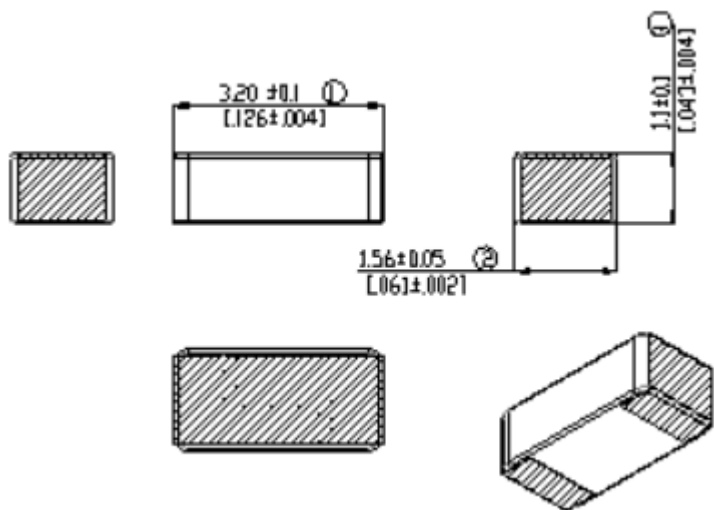
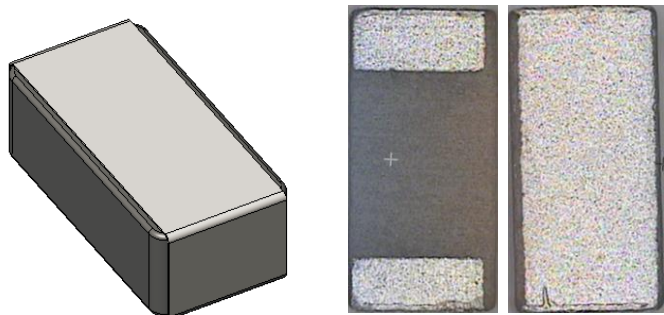
Description: Ceramic Dual Band WLAN

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

Issue: 1622

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Tel: 86 512 6807 9998



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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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MECHANICAL DRAWING

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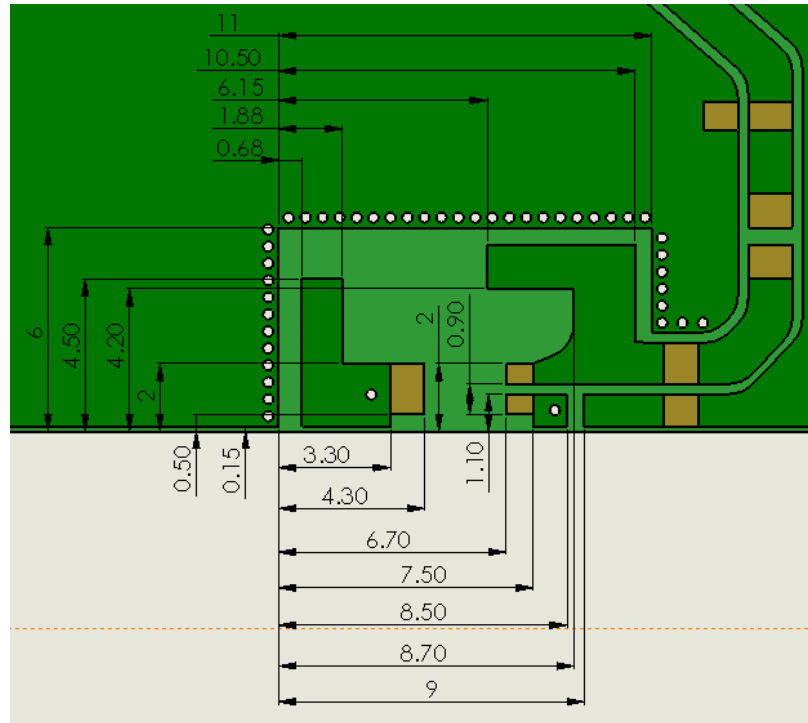
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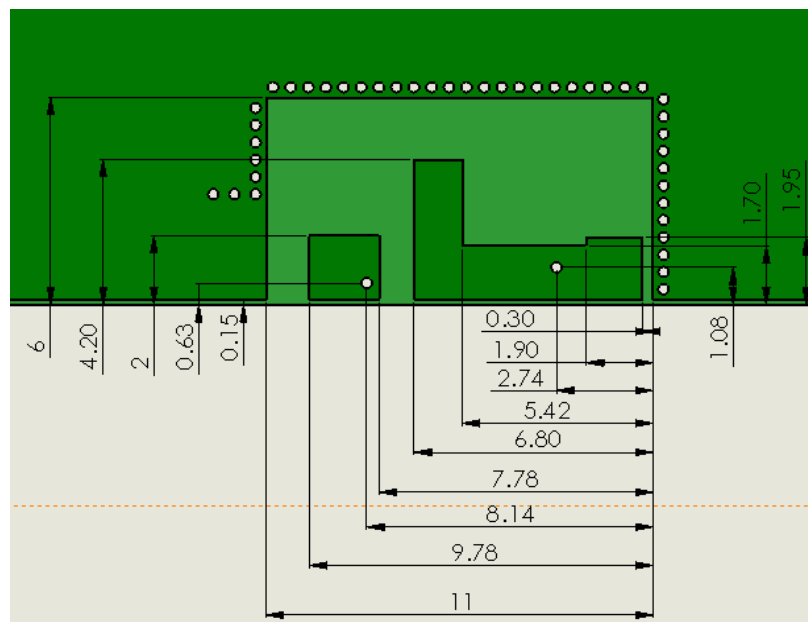
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OTHER SPECIFICATIONS

Top side



Bottom side



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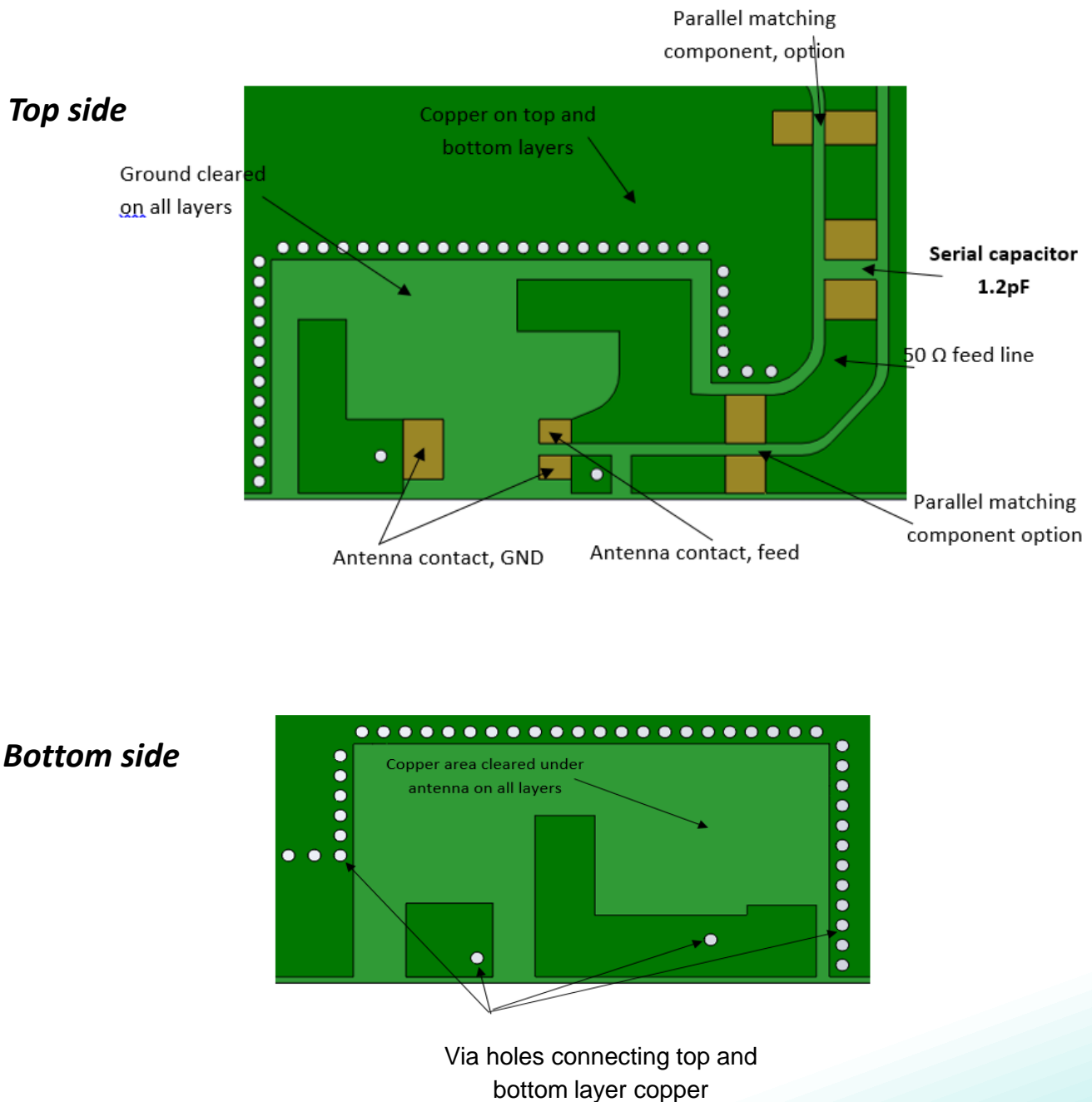
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OTHER SPECIFICATIONS



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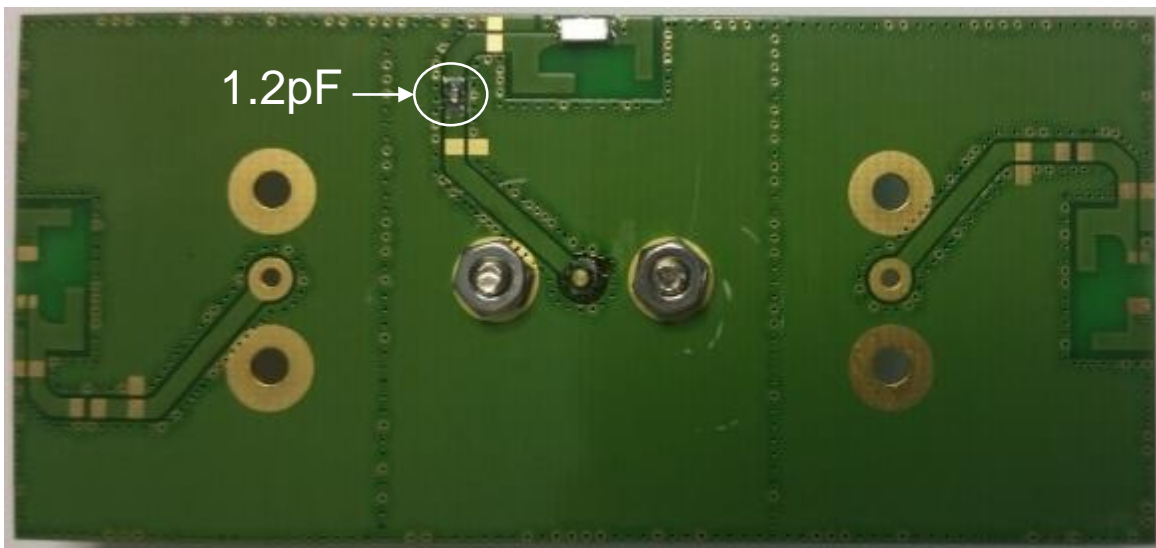
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Recommended Antenna Position on PCB

- 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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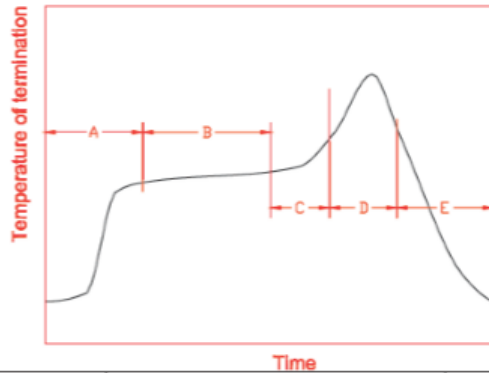
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OTHER SPECIFICATIONS

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 |
| | | if 260°C | 20s~40s |
| E | Regular cooling | 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.

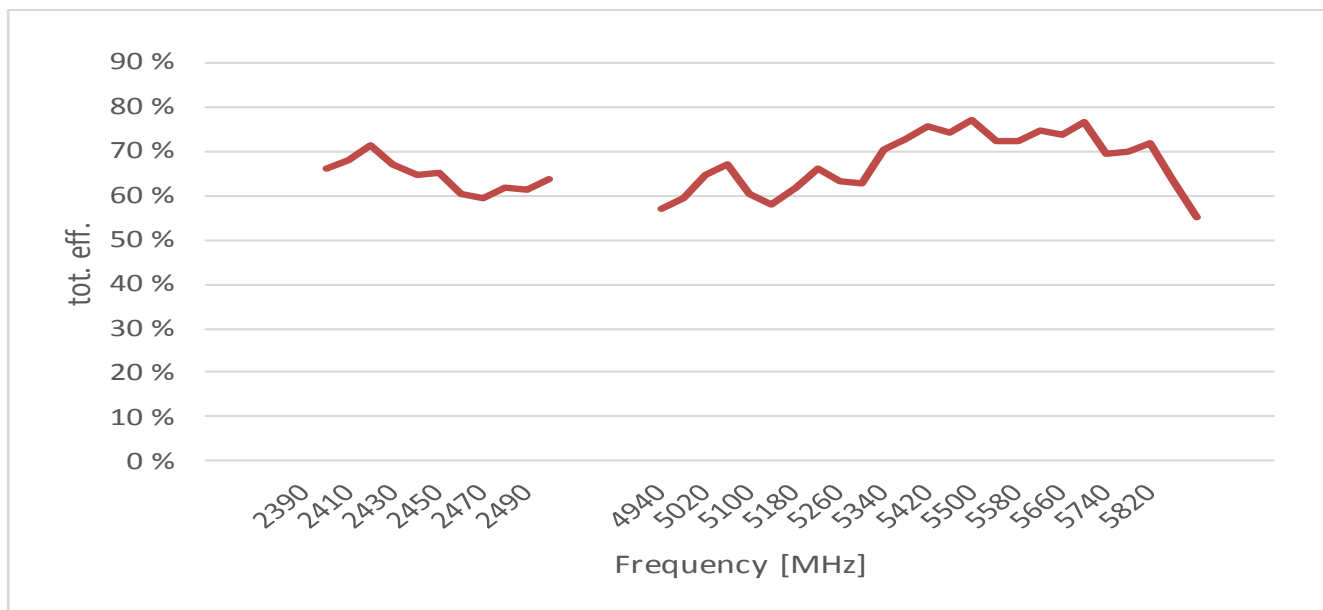
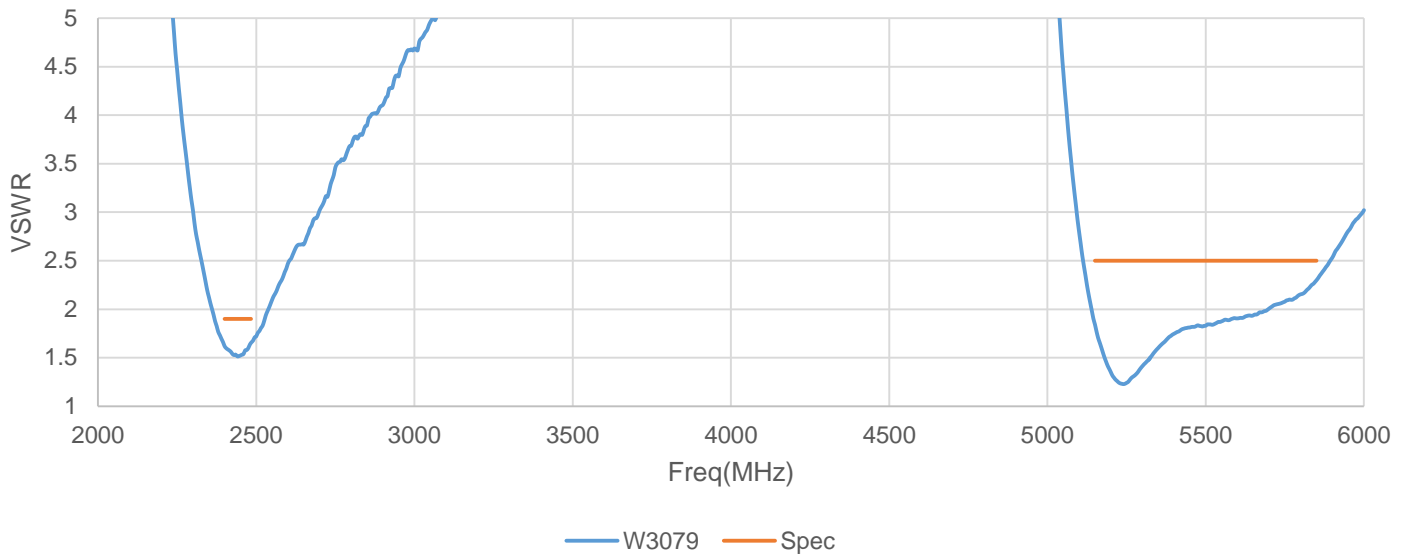
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CHARTS

W3079*



* Free space measurements on Pulse reference test PCB

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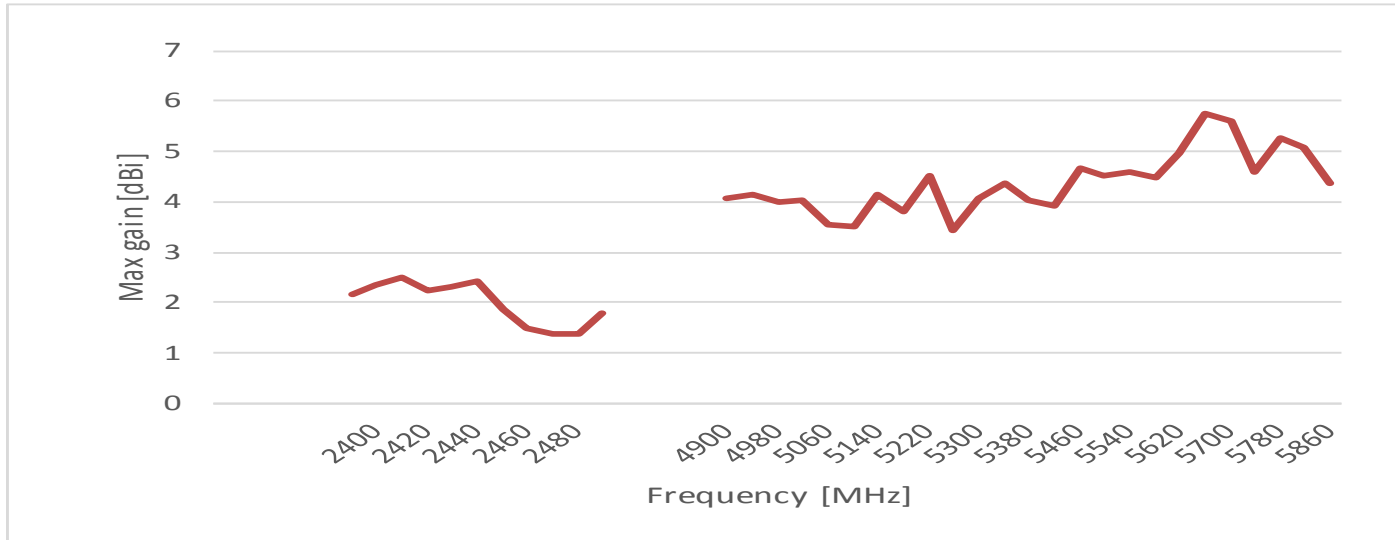
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CHARTS



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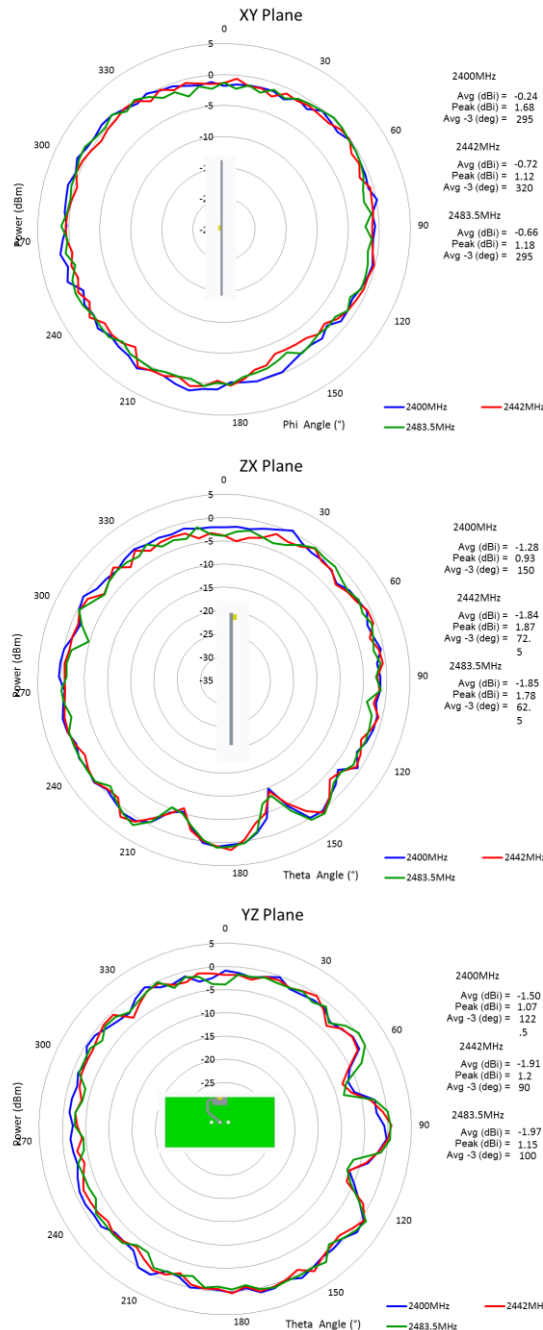
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CHARTS



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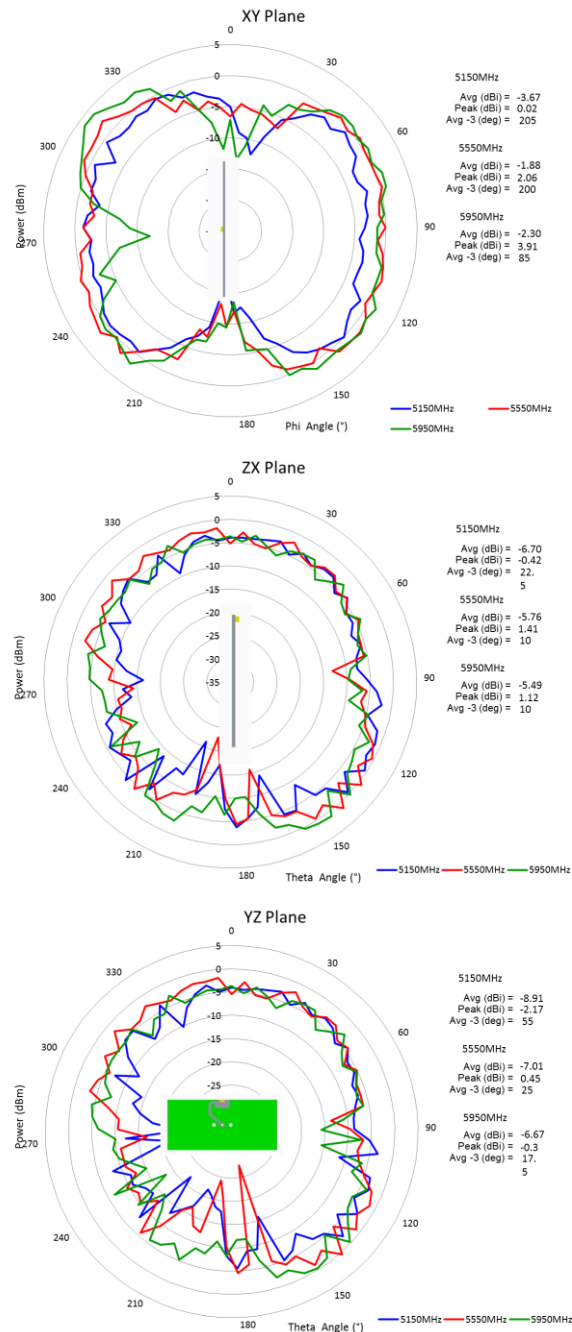
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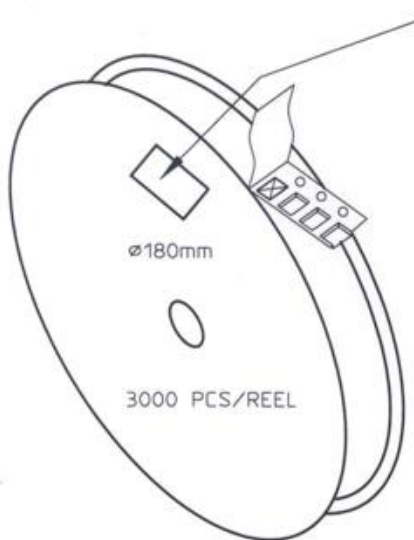
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PACKAGING



REEL LABEL INFORMATION:

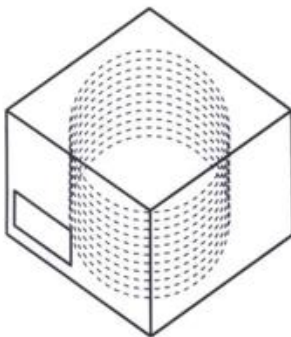
- TRACEABILITY
- QUANTITY
- PRODUCT CODE

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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- Оценку стоимости проекта по компонентам.
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