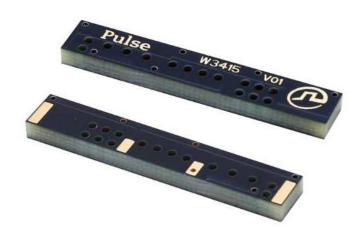


TECHNICAL DATA SHEET

Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415



Features:

- 4G/5G antenna
- Frequency 617-6000MHz
- Gain 0 / 2.5dBi
- Size 40 x 7 x 3 mm
- Fully SMT compatible
- Tape & Reel packing
- MSL-3

Applications:

- Broad band antenna, combines all sub 6GHz 4G and 5G bands
- Devices requiring high performance compact internal 4G/5G antenna
- Suitable for 2xMiMo use when mounting two pcs W3415 onto radio board

All dimensions are in mm / inches

Issue: 2042

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Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany

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: 617-6000MHz SMD 4G/5G IoT

TECHNICAL DATA SHEET

Antenna

PART NUMBER: W3415

ELECTRICAL SPECIFICATIONS

Antenna Type **PCB**

Frequency 617-960/1430-6000MHz

Nominal Impedance 50Ω Return Loss <-4

Radiation Pattern **Omni**

Gain 617~960MHz -1 to 1dBi Gain 1430~6000MHz 1 to 7 dBi

Efficiency 617~960MHz >40% typical Efficiency 1430-6000MHz >45% typical

Polarization Linear **Power Withstanding** 2W

MECHANICAL SPECIFICATIONS

Color Black

40mm(L) * 7mm(W) * 3mm(T) Size

Weight 1.65 g Fixing system SMT

MSL (MOISTURE SENSITIVITY LEVEL) 3

ENVIRONMENTAL SPECIFICATIONS

-40 ~ +85° C **Operating Temperature** -40 ~ +85° C Storage Temperature

RoHS Compliant Yes



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Series: Composite SMD Antenna

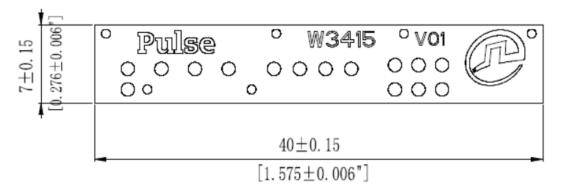
TECHNICAL DATA SHEET

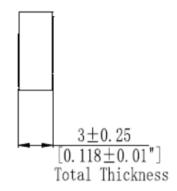
Description: 617-6000MHz SMD 4G/5G IoT

Antenna

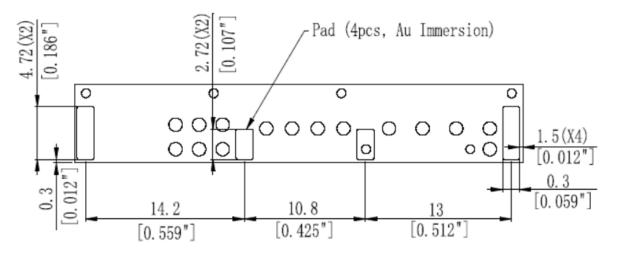
PART NUMBER: W3415

MECHANICAL DRAWING





Front View



Back View

Unit: mm[in]



TECHNICAL DATA SHEET

Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

Recommendation for reflow soldering process

Printing stencil thickness 0,15 - 0,25 mm is recommended for the solder paste. The maximum soldering temperature should not exceed 260°C. The temperature profile recommendations for reflow soldering process is presented in the Figures 1 and 2. The reflow profile

presented in figure 1 describes minimum reflow temperatures. The reflow profile presented in figure 2 describes maximum reflow temperatures. located at the center of the coverage area.

	Method of heat transfer	Controlled hot air convection
1	Average temperature gradient in preheating	2.5 °C/s
2	Soak time	2-3 minutes
3	Max temperature gradient in reflow	3 °C/s
4	Time above 217 °C	Max 30 sec
5	Peak temperature in reflow	230 °C for 10 seconds
6	Temperature gradient in cooling	Max -5 °C/s

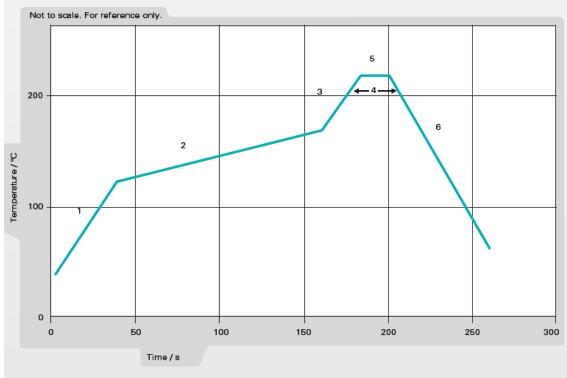


Figure 1. Minimum temperature profile recommendation for reflow soldering process



TECHNICAL DATA SHEET

Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

Recommendation for reflow soldering process

	Method of heat transfer	Controlled hot air convection
1	Average temperature gradient in preheating	2.5 °C/s
2	Soak time	2-3 minutes
3	Max temperature gradient in reflow	3 °C/s
4	Time above 217 °C	Max 60 sec
5	Time above 230 °C	Max 50 sec
6	Time above 250 °C	Max 10 sec
7	Peak temperature in reflow	260 °C for 5 seconds
8	Temperature gradient in cooling	Max -5 °C/s

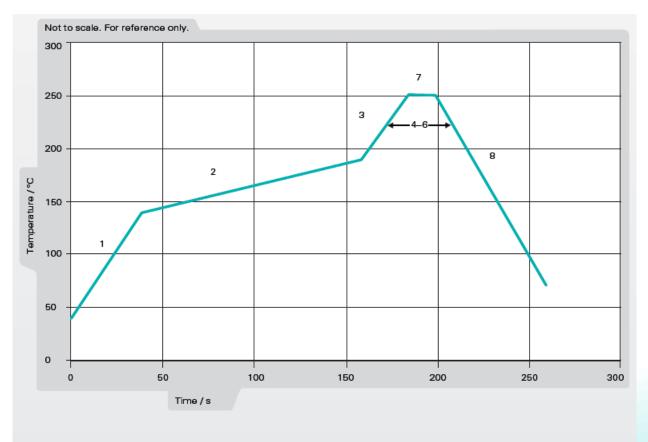


Figure 2. Maximum temperature profile recommendation for reflow soldering process



TECHNICAL DATA SHEET

Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

TEST SETUP





TECHNICAL DATA SHEET

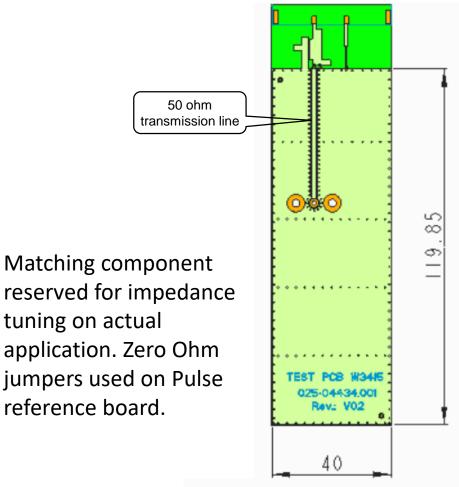
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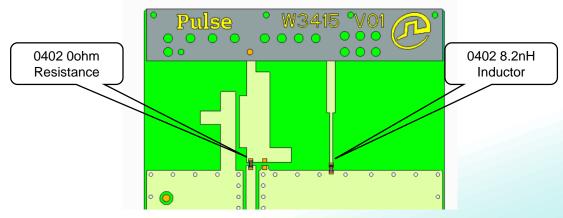
Antenna

PART NUMBER: W3415

TEST SETUP

Pulse reference test PCB for W3415 antenna





Issue: 2042





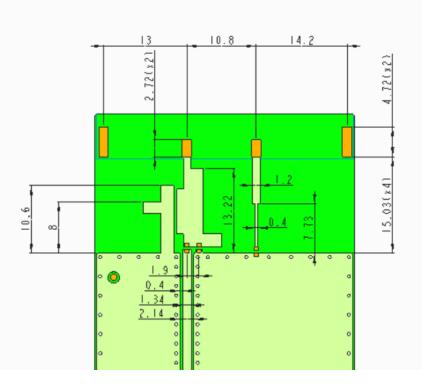
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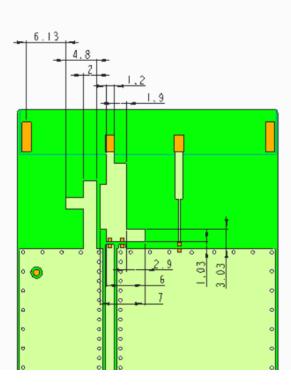
Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

TEST SETUP





Recommended test board PCB layout for electrical characteristic measurement.

Substrate material: ISOLA 185HR.

Total thickness: 1mm

All dimensions are in mm

Issue: 2042

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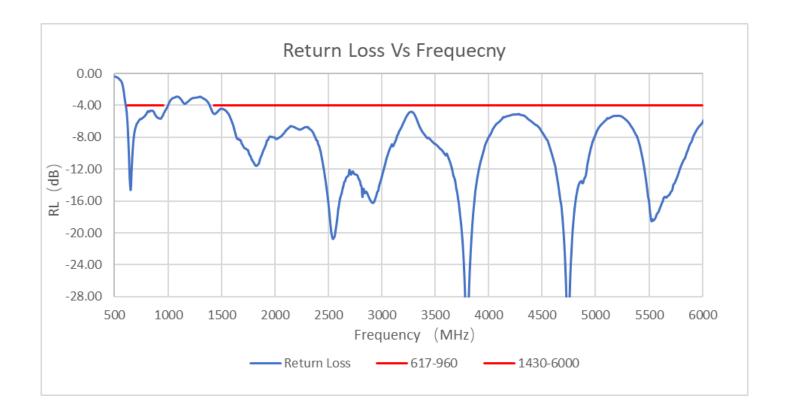
TECHNICAL DATA SHEET

Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

CHARTS





TECHNICAL DATA SHEET

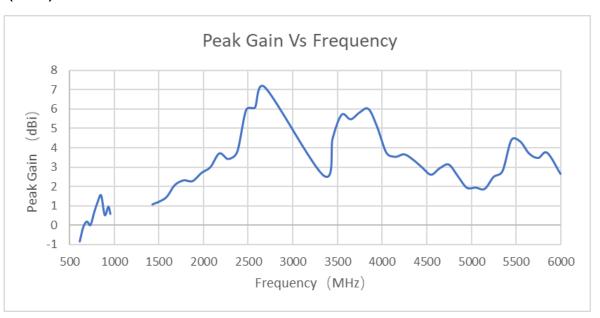
Description: 617-6000MHz SMD 4G/5G IoT

Antenna

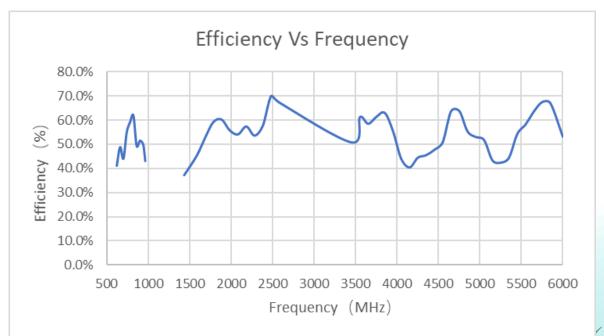
PART NUMBER: W3415

CHARTS

Gain(dBi)



Efficiency(%)



Issue: 2042

KOHS



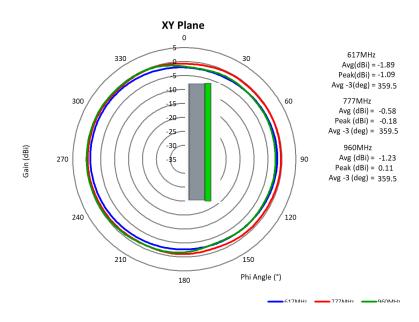
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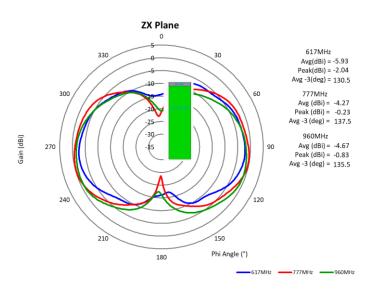
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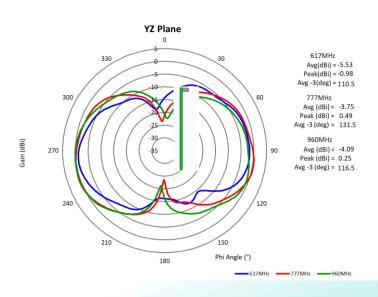
Antenna

PART NUMBER: W3415

CHARTS







Issue: 2042



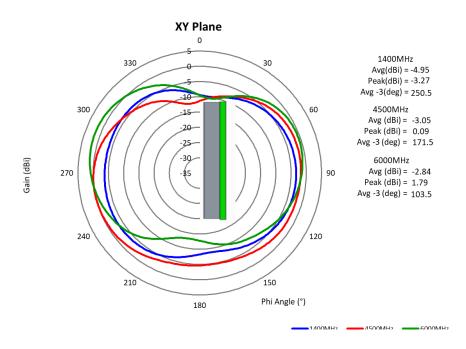
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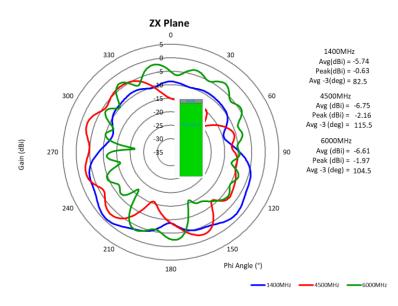
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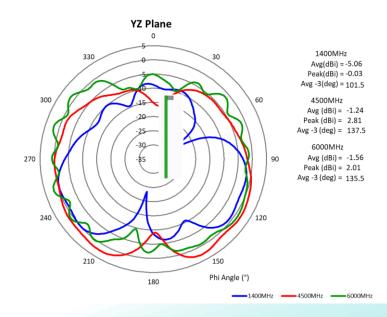
Antenna

PART NUMBER: W3415

CHARTS







Issue: 2042

ROHS



TECHNICAL DATA SHEET

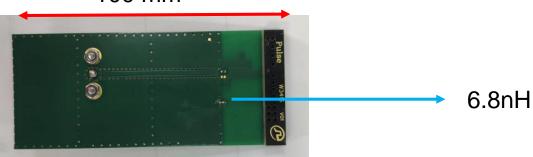
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Antenna

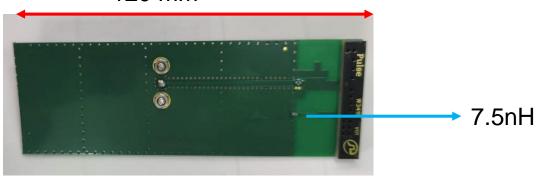
PART NUMBER: W3415

PCB length effect

100 mm



120 mm









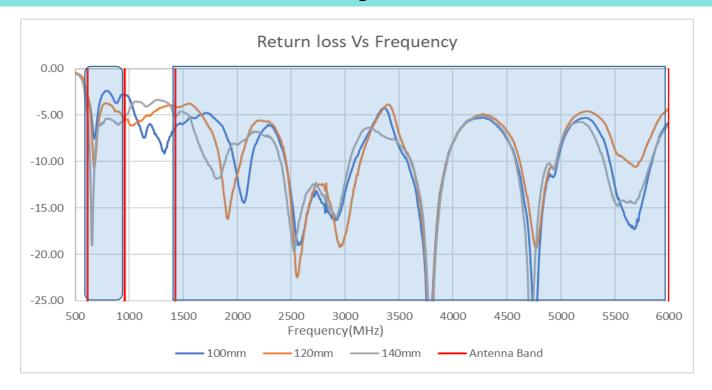
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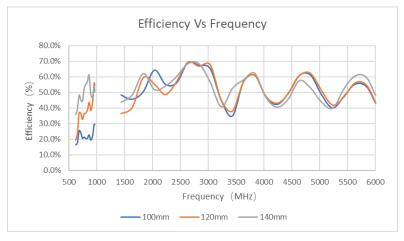
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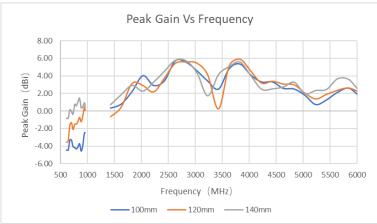
Antenna

PART NUMBER: W3415

PCB length effect









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Series: Composite SMD Antenna

TECHNICAL DATA SHEET

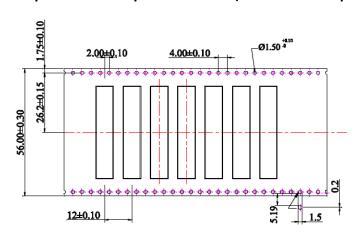
Description: 617-6000MHz SMD 4G/5G IoT

Antenna

PART NUMBER: W3415

PACKAGING

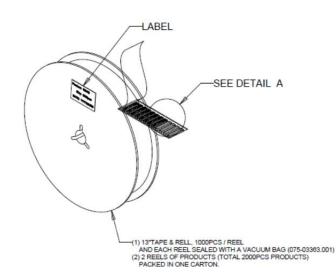
1000pcs Antennas Per 1pcs 13" Tape & Reel 2 pcs 13" Tape & Reel (total 2000pcs Antennas) per 1 box

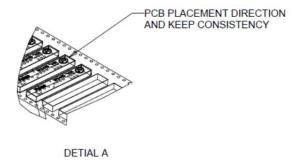












Issue: 2042

单击下面可查看定价,库存,交付和生命周期等信息

>>Pulse(普思)