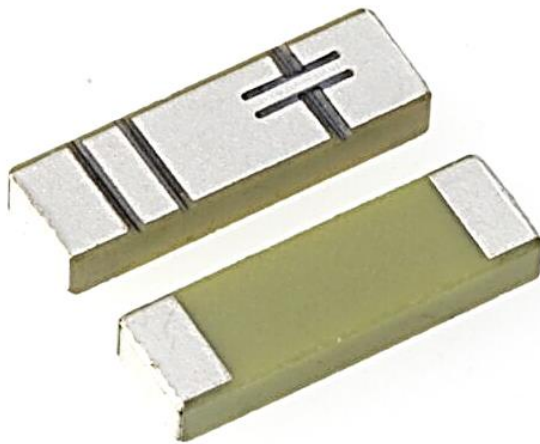


**Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm****Series: Chip Antenna****PART NUMBER: W3006****Features:**

- 2.4-2.5 / 5.15-7.125GHz WiFi-6E
- Peak gain 2.2 / 5.2 dBi
- Efficiency 60 / 70 %
- Compact size W x L x H (10 x 3.2 x 1.5 mm)
- Low weight: 240 mg
- Fully SMD compatible
- Tape and reel packing
- RoHS Compliant Product
- Moisture Sensitivity Level: MSL1

Applications:

- Layout 1 for 2.4-2.5 / 5.15-5.85GHz
- Layout 2 for 2.4-2.5 / 5.15-7.125GHz

- IEEE 802.11a/b/g/n/x
- WiFi-6E
- 5 GHz WLAN
- 2.4 GHz WLAN
- 2.4 GHz ISM Band Systems
- 5GHz ISM Band Systems
- ZigBee IEEE 802.15.4

All dimensions are in inches/mm

Issue: 2137

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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: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

ELECTRICAL SPECIFICATIONS

Layout and Matching for 2.4-2.5/5.15-5.85GHz

Frequency	2.4-2.5 / 5.15-5.85 GHz
Return Loss	-8 /-9 dB max
Efficiency (typical)	60 / 80 %
Peak Gain (typical)	1.8 / 4.5dBi

Layout and Matching for 2.4-2.5/5.15-7.125GHz WiFi-6E

Frequency	2.4-2.5 / 5.15-7.125 GHz
Return Loss	-5 /-5 dB max
Efficiency (typical)	65 / 75 %
Peak Gain (typical)	1.6 / 4.2dBi
Nominal Impedance	50Ω
Polarization	Linear
Interface	SMD mount ceramic antenna

**Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm****Series: Chip Antenna****PART NUMBER: W3006****MECHANICAL SPECIFICATIONS**

Weight	0.24g
Size	10 x 3.2 x 1.5 mm

ENVIRONMENTAL SPECIFICATIONS

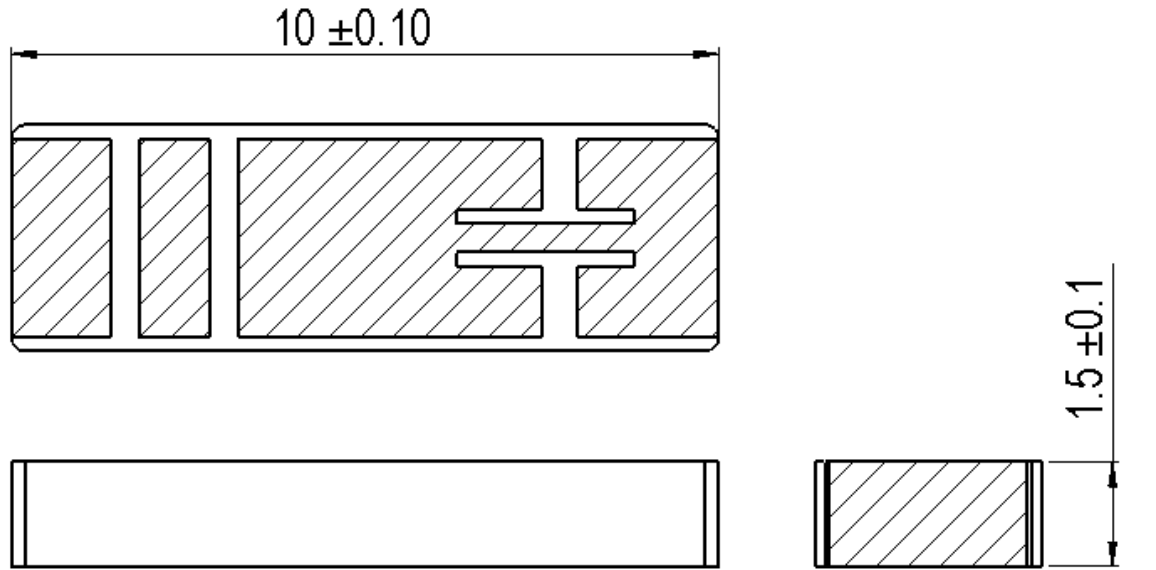
Operating temperature	-40~+85° C
Temperature	-40~+85° C
Humidity	Cyclic 6 +25° C/+55° C 95%
Vibration	
Sinusoidal 2-8Hz	7.5 mm
Sinusoidal 8-200Hz	20 m/s ²
Shocks	0.5 ms
Salt mist	96 hours

Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

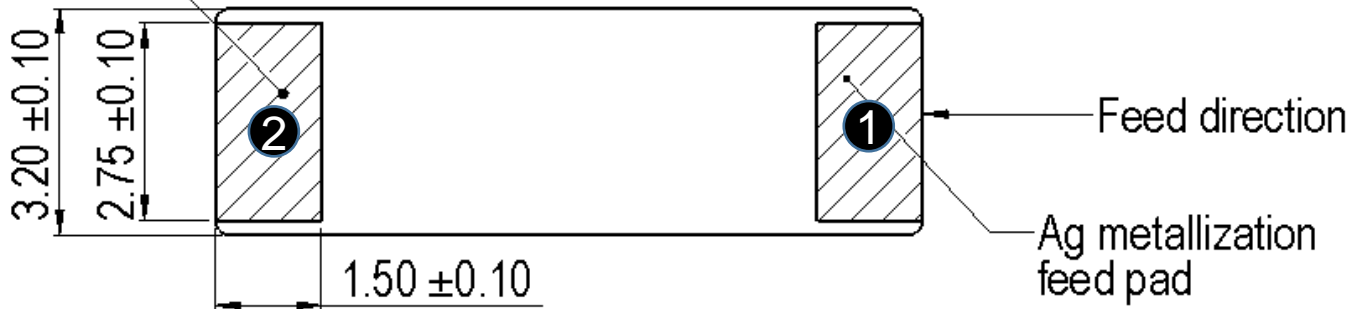
PART NUMBER: W3006

Series: Chip Antenna

MECHANICAL DRAWING AND TERMINAL CONFIGURATION



Ag metallization
support pad



No.	Terminal Name	Terminal Dimensions
1	Feed	1.5 x 2.75 mm
2	Support pad	1.5 x 2.75 mm

Antenna feed pad can be identified by looking top surface metallization pattern

Issue: 2137

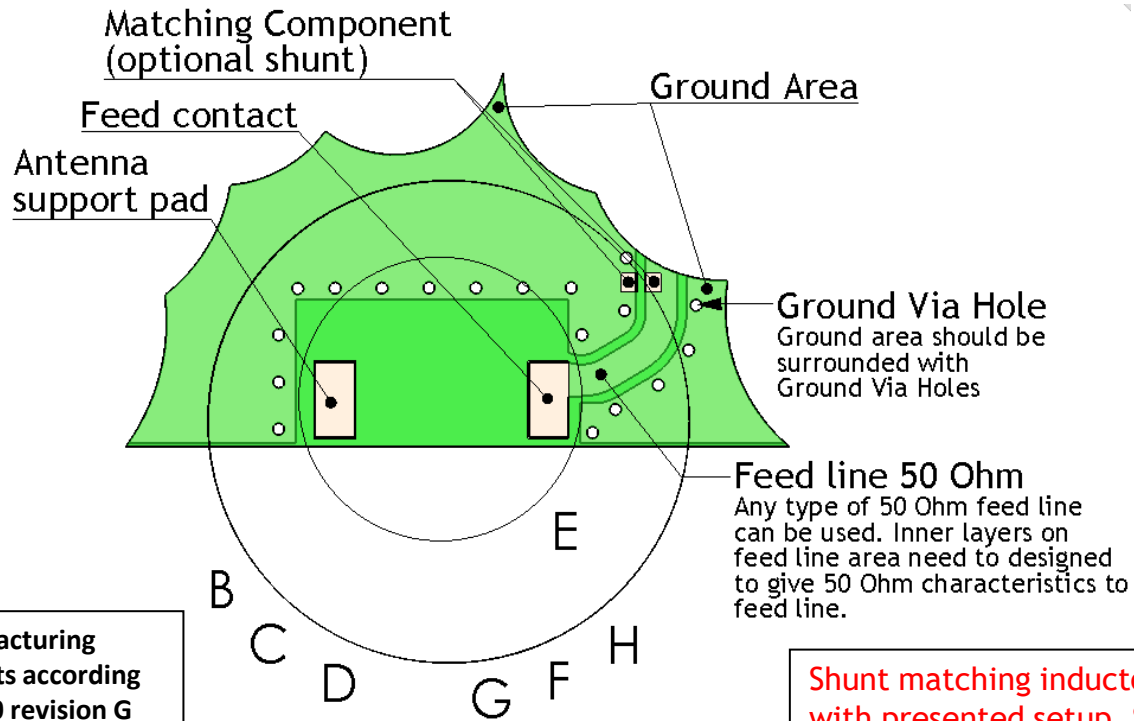
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MECHANICAL DRAWING AND TERMINAL CONFIGURATION

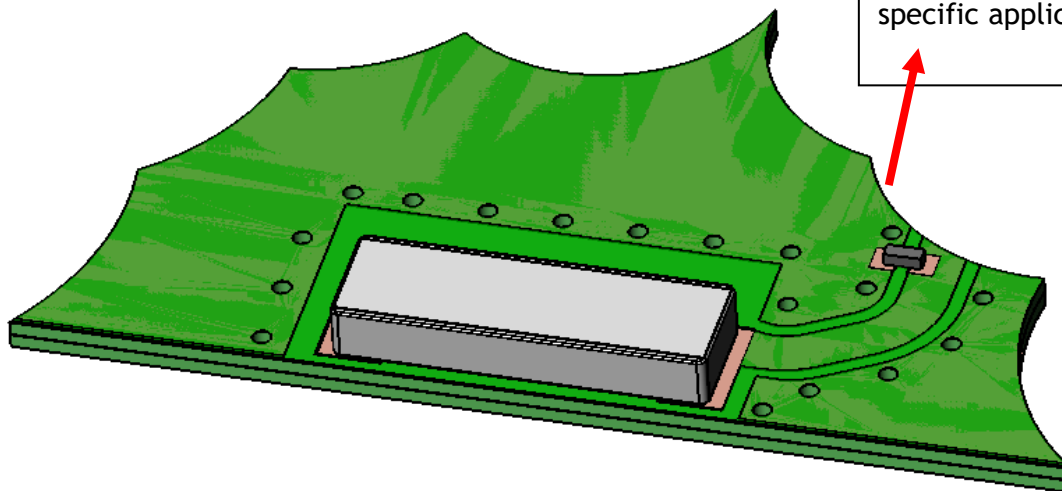
Ground cleared under antenna



PWB manufacturing requirements according to IPC-A-600 revision G or similar

Shunt matching inductor, 1.5nH with presented setup. Same value for layout 1 and 2 reference boards.

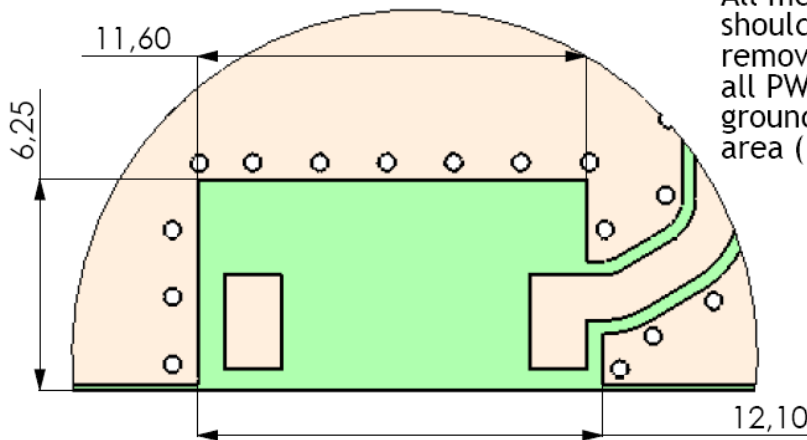
Exact inductor value depends on specific application.



MECHANICAL DRAWING AND TERMINAL CONFIGURATION

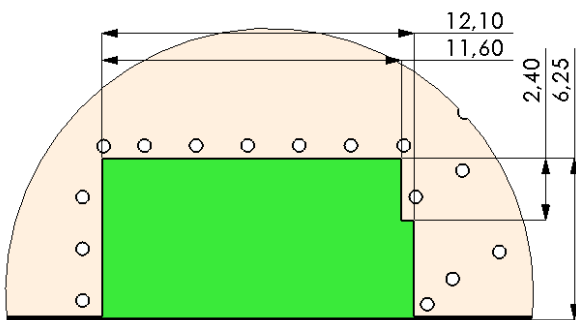
1. Layout and Matching for 2.4-2.5/5.15-5.85GHz

Ground clearance area (11.60 x 6.25 mm)

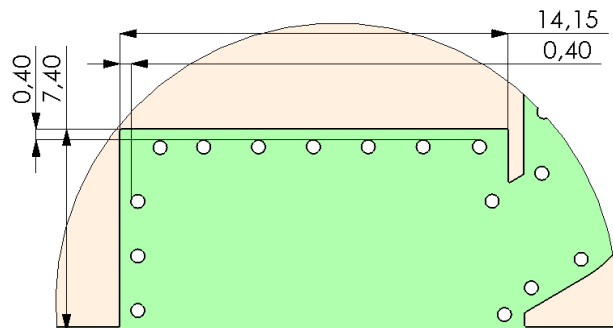


All metallization should be removed from all PWB layers on ground clearance area (11.60 x 6.25 mm)

Opening in bottom/inner ground layers



Opening in other layers (no ground/ RF)



Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

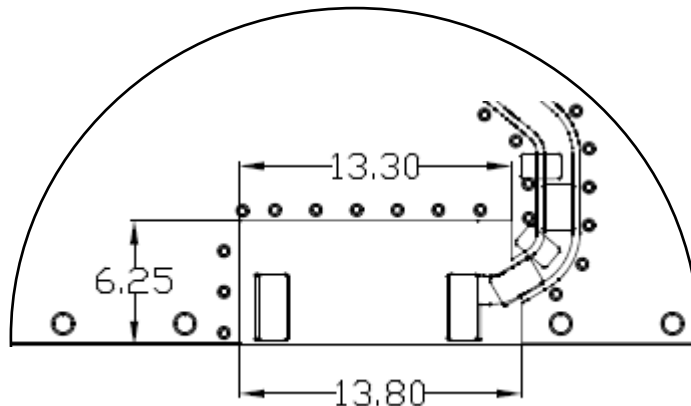
PART NUMBER: W3006

Series: Chip Antenna

MECHANICAL DRAWING AND TERMINAL CONFIGURATION

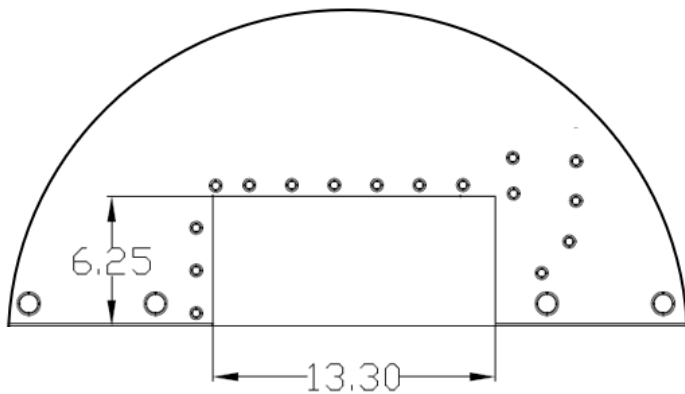
2. Layout and Matching for 2.4-2.5/5.15-7.125GHz

Ground clearance area (13.3 x 6.25 mm)

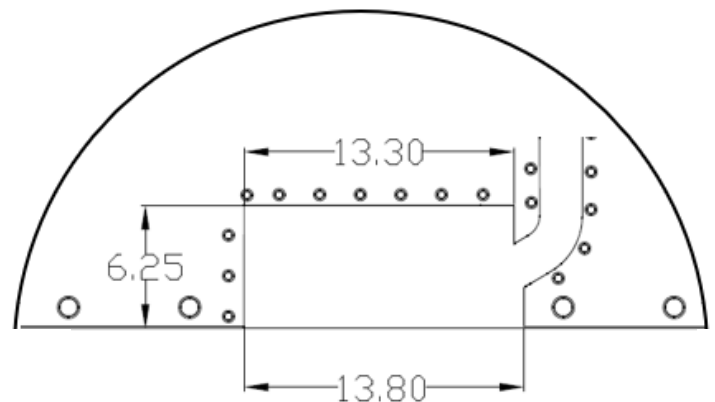


All metallization should be removed from all PWB layers on ground clearance area (13.3 x 6.25mm)

Opening in bottom/inner ground layers



Opening in other layers (no ground/RF)



Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

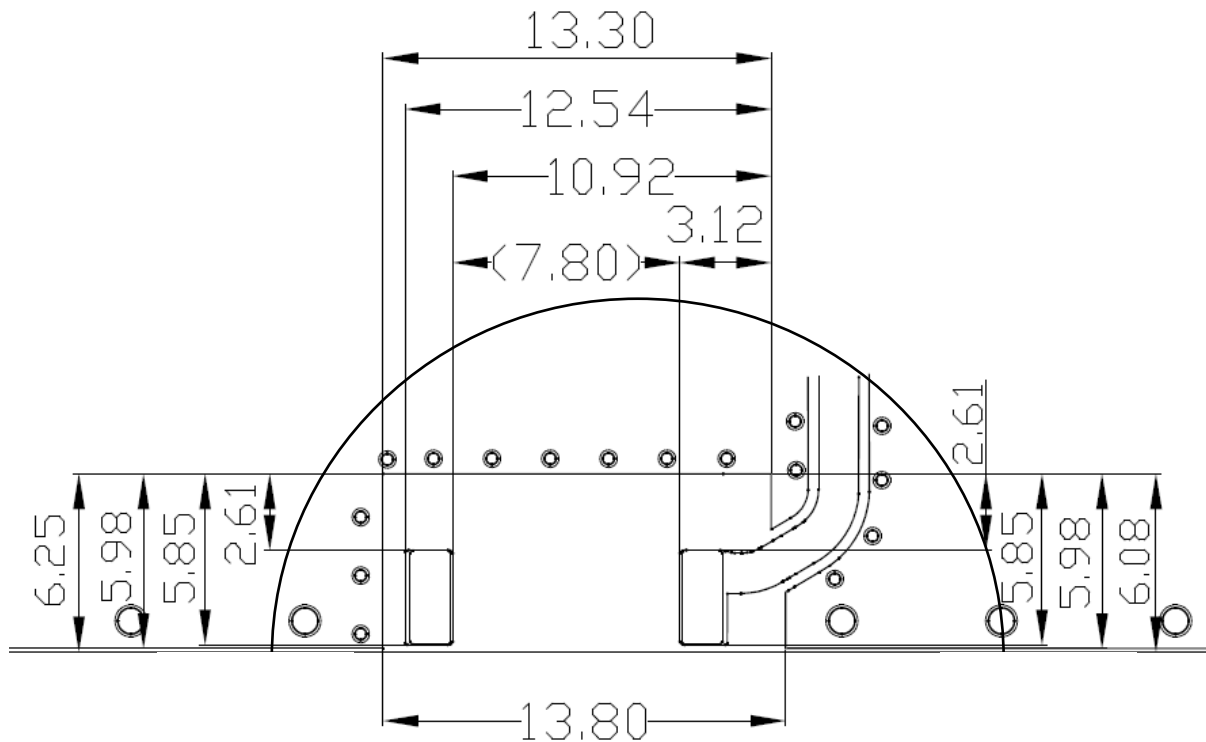
PART NUMBER: W3006

Series: Chip Antenna

MECHANICAL DRAWING AND TERMINAL CONFIGURATION

Recommended Antenna Pad Dimensions on PWB Layout (top surface)

Pad dimensions in top copper



Issue: 2137

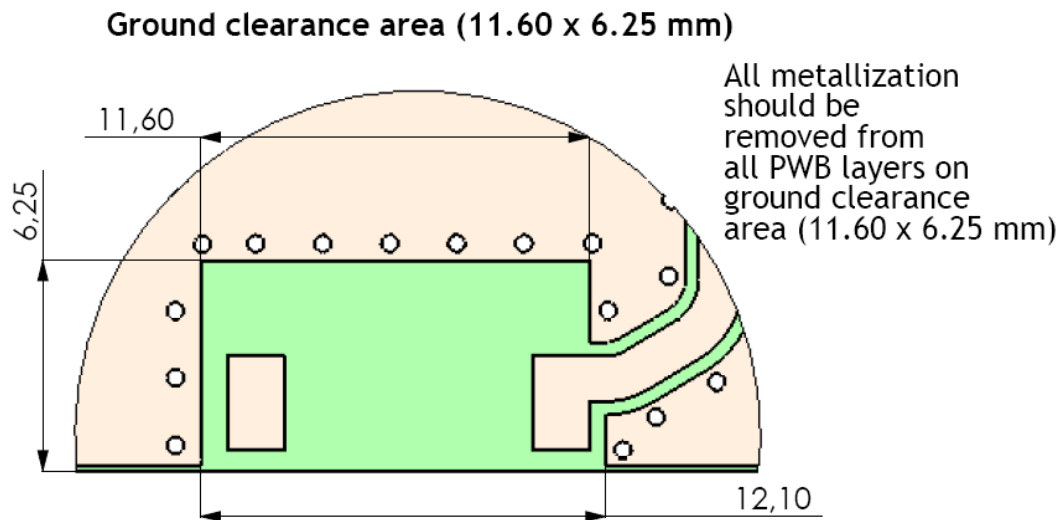
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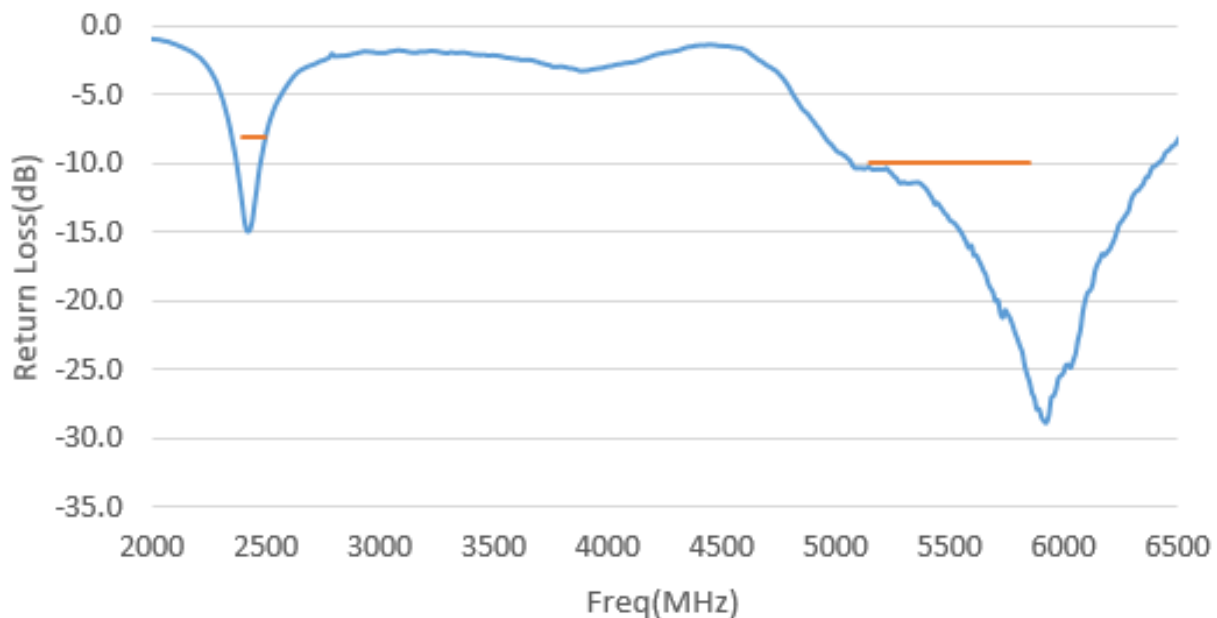
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Test setup

1. Layout and Matching for 2.4-2.5/5.15-5.85GHz



Return Loss



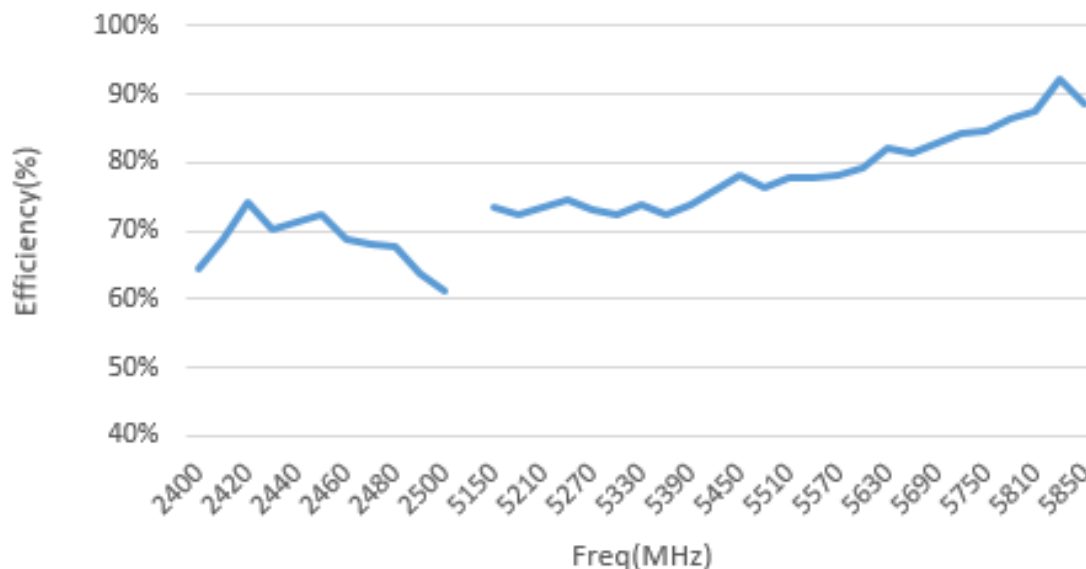
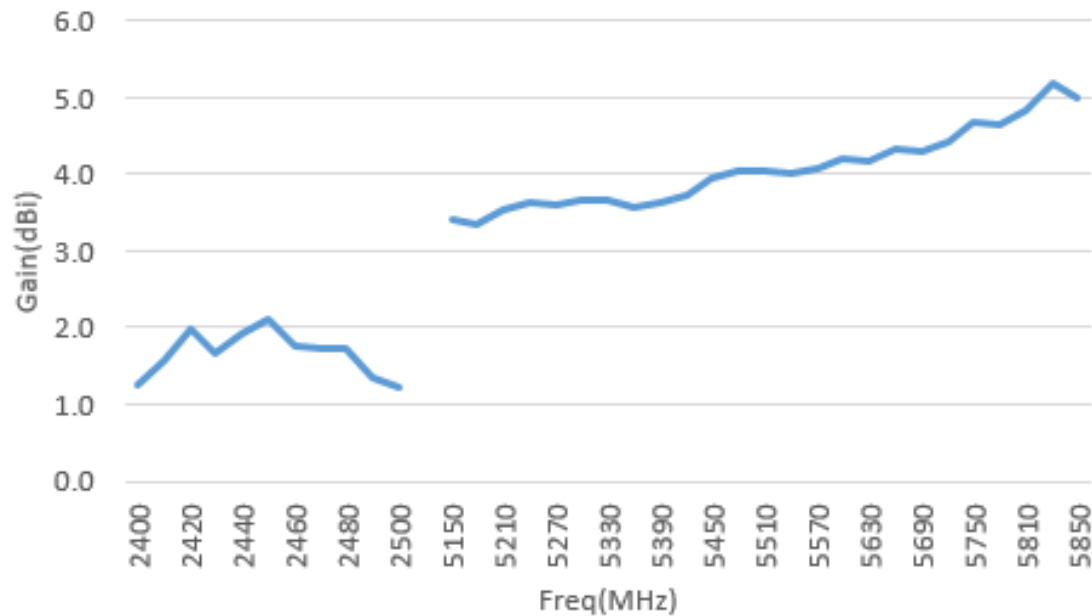
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

Series: Chip Antenna

PART NUMBER: W3006

CHARTS

1. Layout and Matching for 2.4-2.5/5.15-5.85GHz



Issue: 2137

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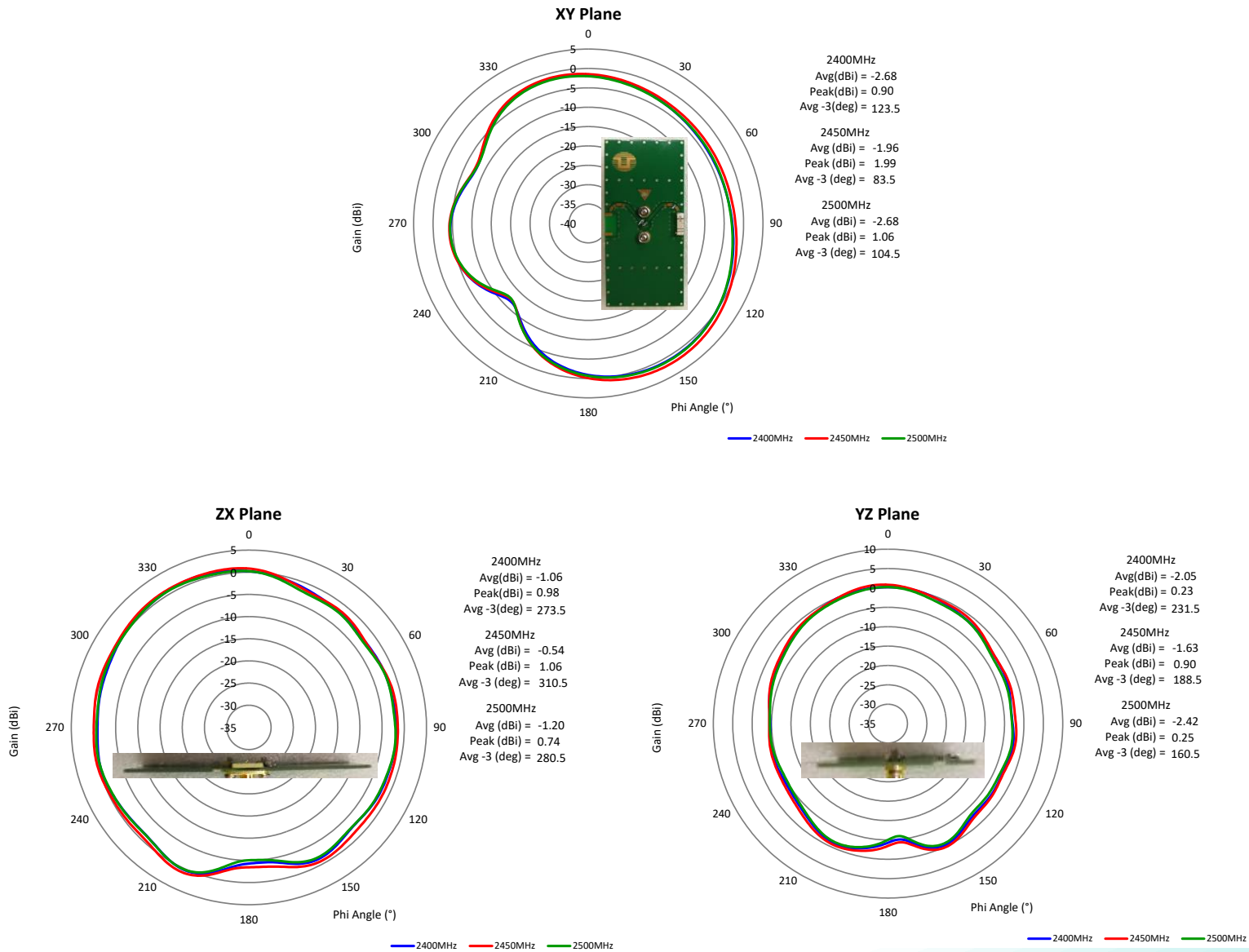
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

CHARTS

1. Layout and Matching for 2.4-2.5/5.15-5.85GHz



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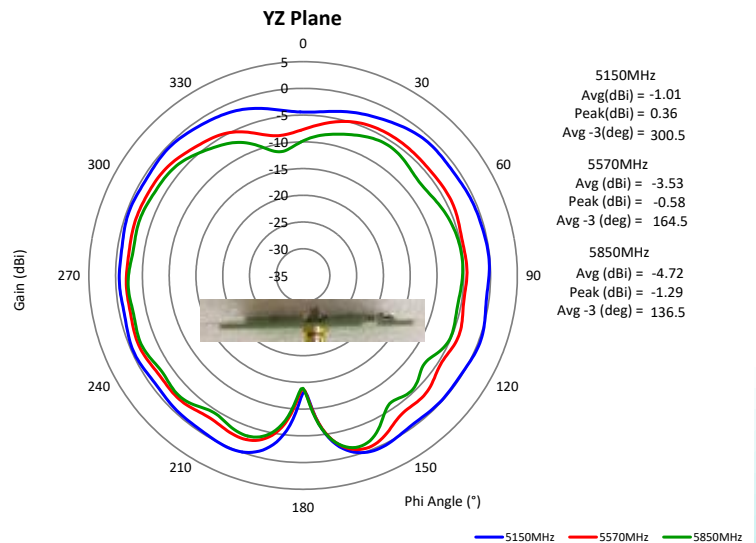
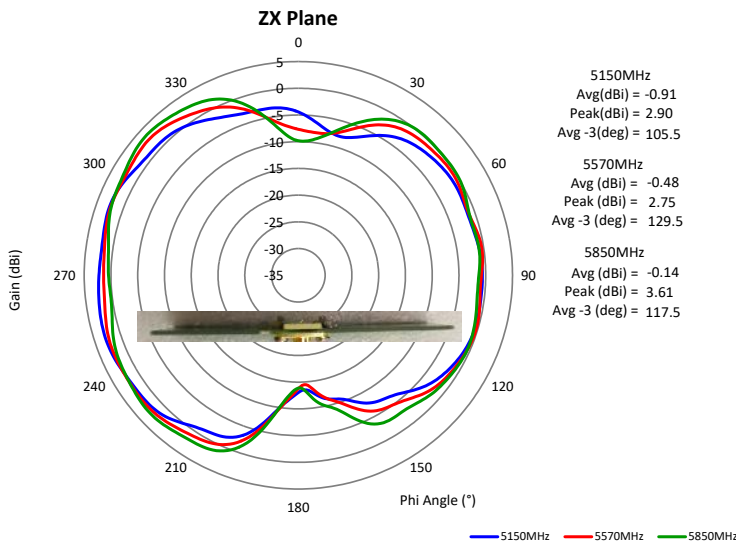
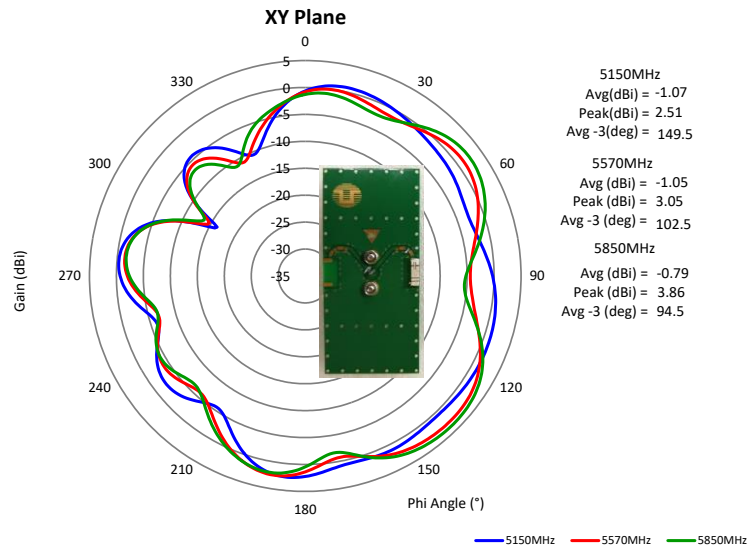
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

CHARTS

1. Layout and Matching for 2.4-2.5/5.15-5.85GHz



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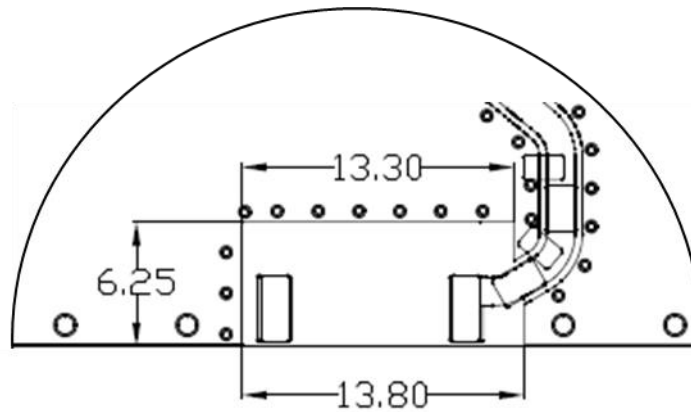
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

Series: Chip Antenna

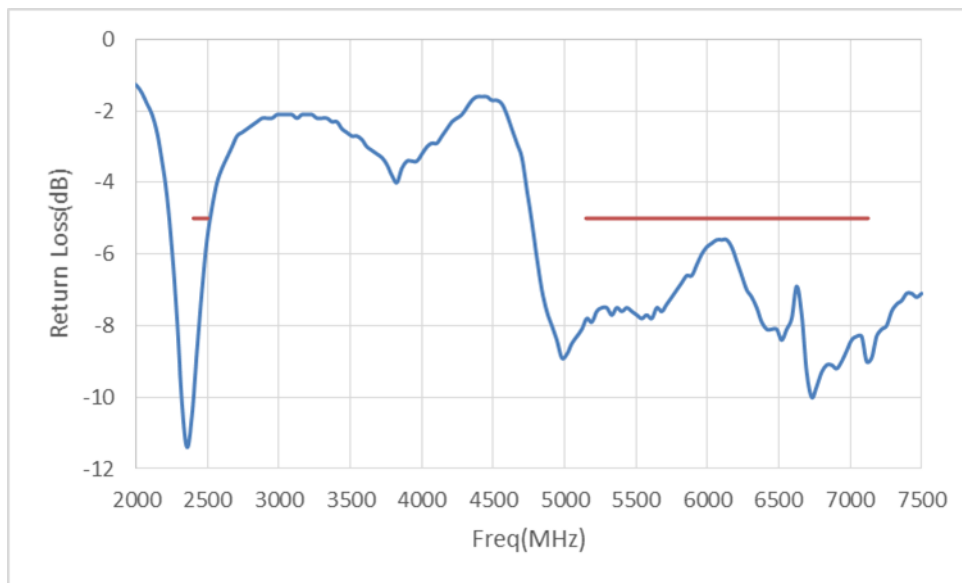
PART NUMBER: W3006

Test setup

2. Layout and Matching for 2.4-2.5/5.15-7.125GHz



Return Loss



Issue: 2137

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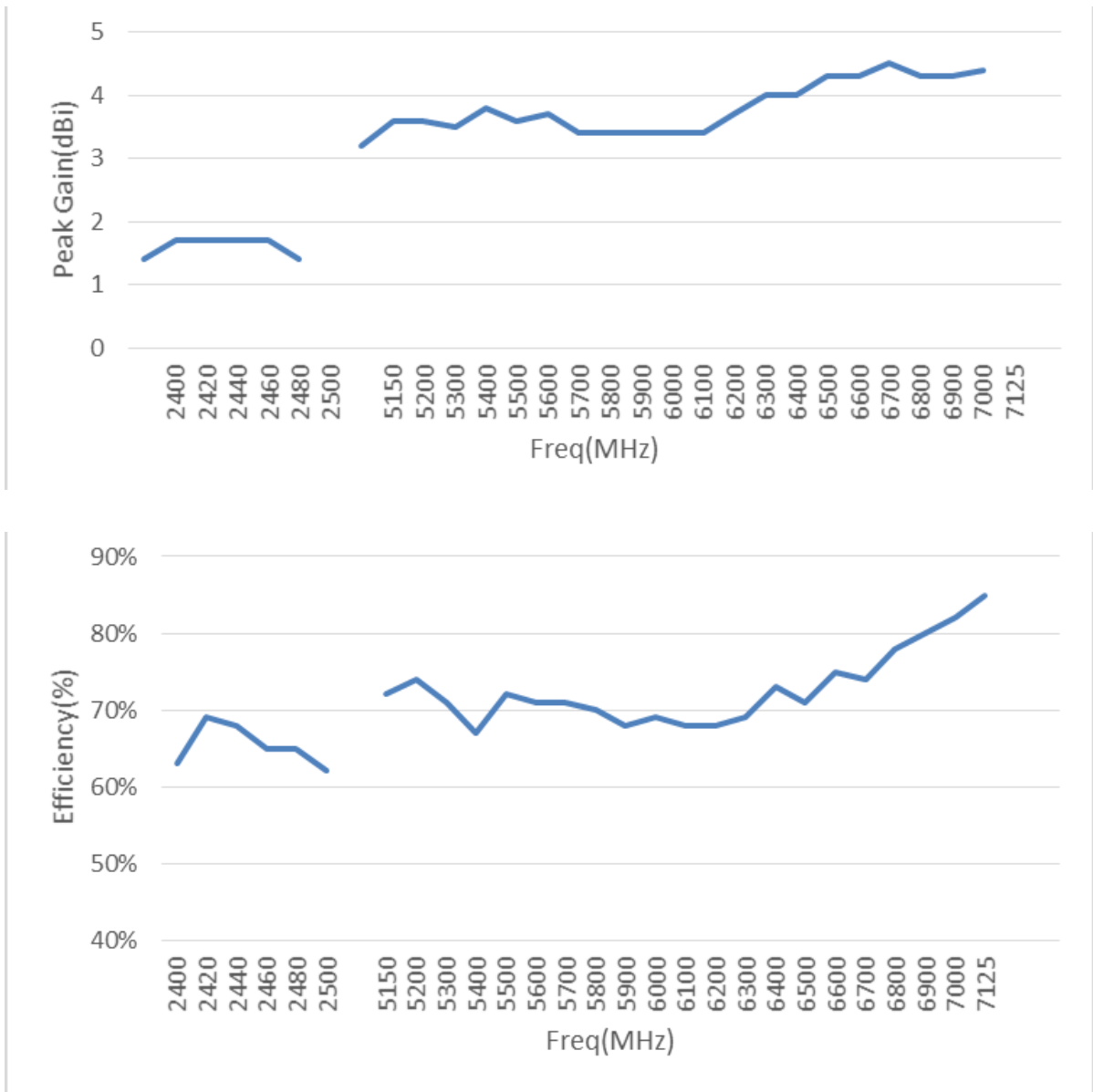
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

CHARTS

2. Layout and Matching for 2.4-2.5/5.15-7.125GHz



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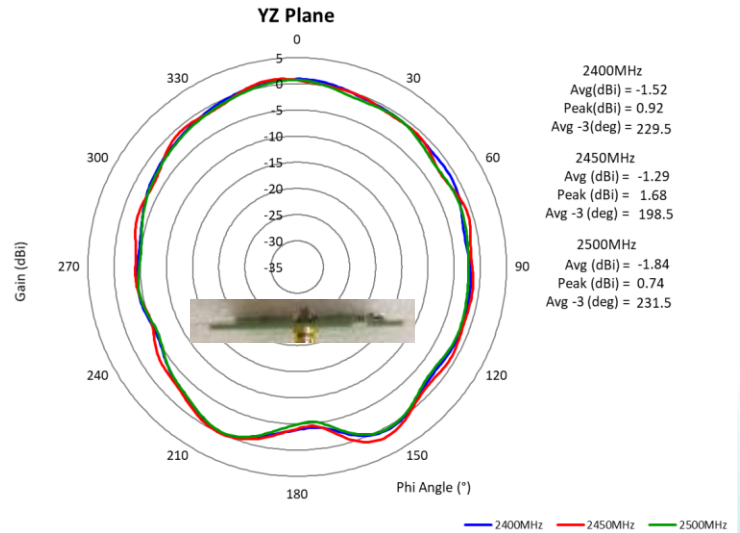
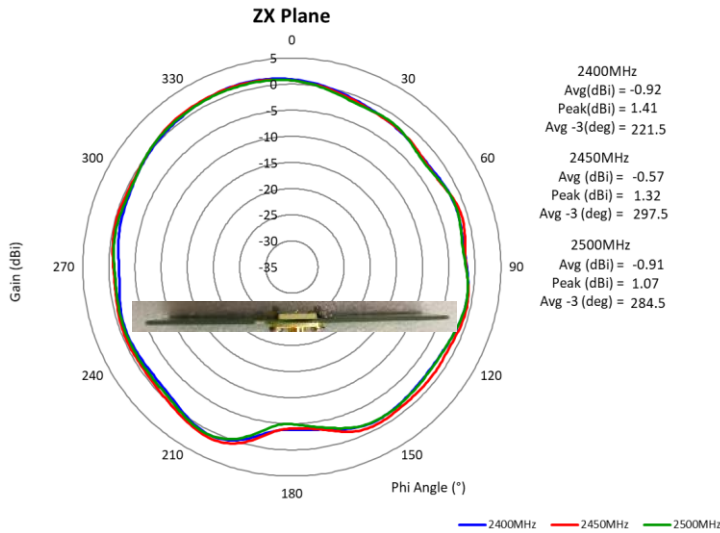
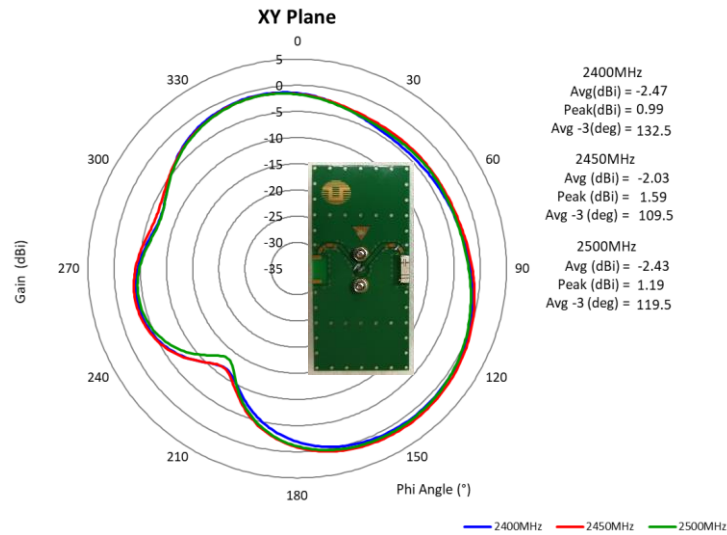
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

CHARTS

2. Layout and Matching for 2.4-2.5/5.15-7.125GHz



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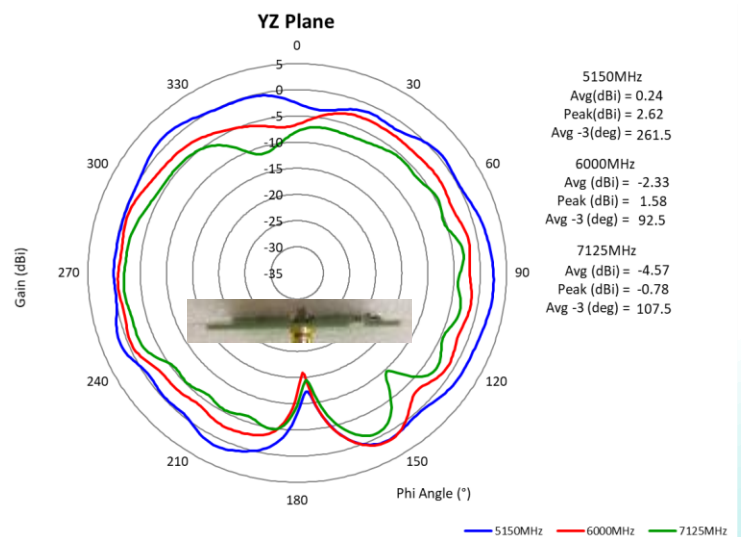
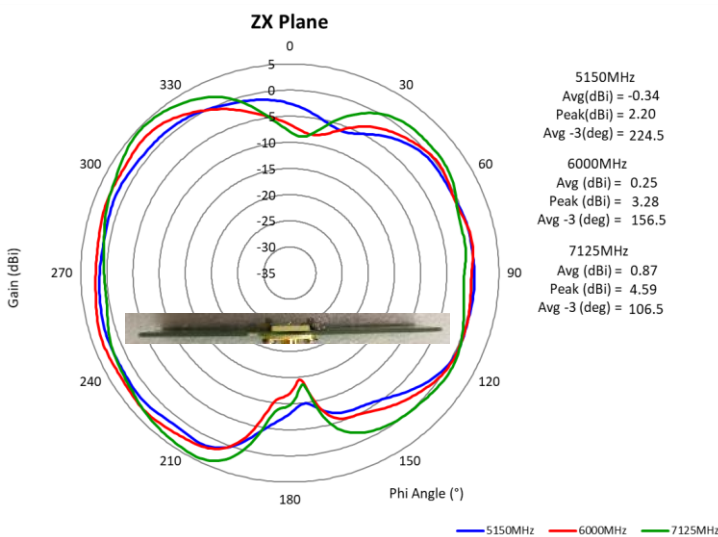
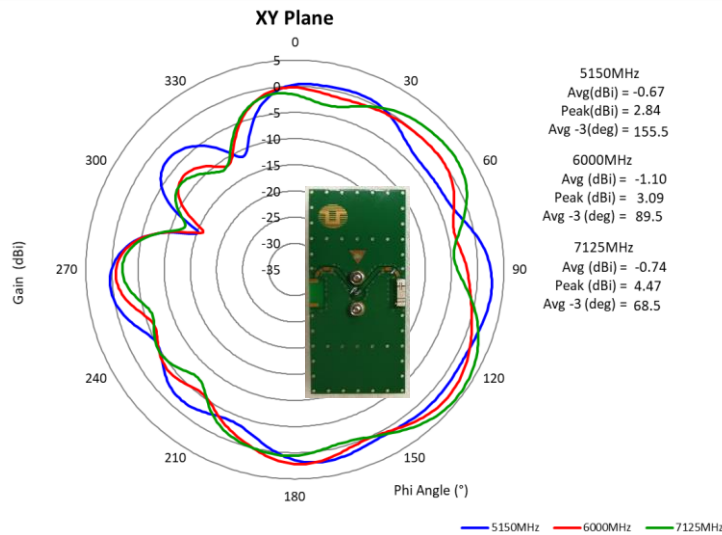
Description: 2.4-2.5/5.15-7.125GHz Dual band
Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

CHARTS

2. Layout and Matching for 2.4-2.5/5.15-7.125GHz



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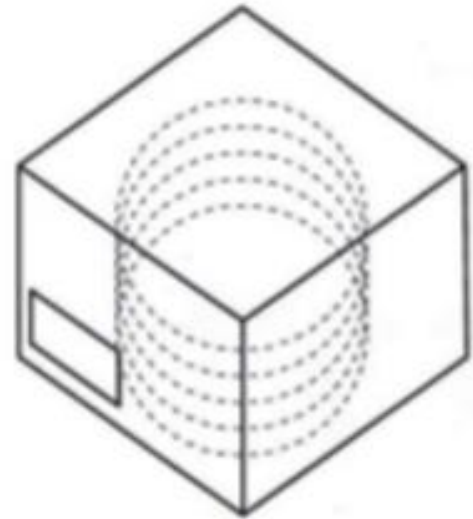
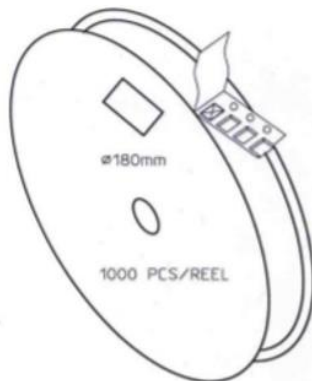
Description: 2.4-2.5/5.15-7.125GHz Dual band Ceramic 10x3.2x1.5mm

PART NUMBER: W3006

Series: Chip Antenna

PACKAGING

- 1000pcs antennas per 7" reel
- 3pcs 7" reel per inner package box
- 2pcs inner box per out box
- Total 6000pcs antenna per out box
- Out box size: 390mmx215mmx165mm



LEVEL

NOT MOISTURE SENSITIVE

1

These Devices do not require special storage conditions provided:

1. They are maintained at conditions equal to or less than 30°C and 85% RH.
2. They are solder reflowed at a peak body temperature which does not exceed 260°C.

Note: Level and body temperature defined by IPC/JEDEC J-STD-020

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