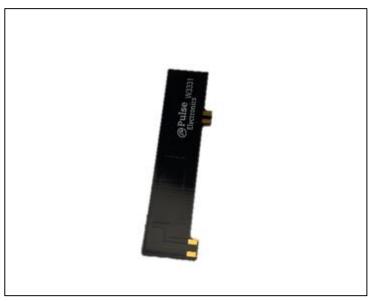


Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331



Series: PCB Embedded



Features:

- Small clearance needed (about 4mm)
- Test PCB size 118.5*102mm
- High efficiency
- Small compact form factor
- Low profile
- Multi-band (ISM and 2.4 GHz)
- Board Mountable
- 2 connection points
- Lead free materials
- RoHS Compliant Product

Applications:

- Data transmission for IoT applications
- High speed data terminals
- Routers using ISM frequencies
- · ISM and WiFi dual applications
- Hot Spots
- Radio modules
- WiFi / BLE / Zigbee

All dimensions are in mm / inches

Issue: 1612

In the effort to improve our products, we reserve the right to make changes judged to be necessary. $\texttt{CONFIDENTIAL} \ \texttt{AND} \ \texttt{PROPRIETARY} \ \texttt{INFORMATION}$

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TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

ELECTRICAL SPECIFICATIONS

Frequency port1 863-928MHz

Frequency port2 2400-2500MHz

Nominal Impedance 50Ω

Return Loss -6dB max@ISM868/915MHz

-12dB max@ISM2.4GHz

Isolation between port1& port2 -15dB

Average efficiency 65% @ISM868/915MHz

75%@ISM2.4GHz

Gain 2 +/- 1 dBi@ISM868/915MHz

3.5 +/- 1 dBi@ISM2.4GHz

Radiation Pattern Omni

Polarization: linear

Power withstanding 3W



TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

MECHANICAL SPECIFICATIONS	
PCB material	FR4
Color	Black
Weight	0.75g
Overall Length	1.77 INCHES
Overall width	0.47 INCHES

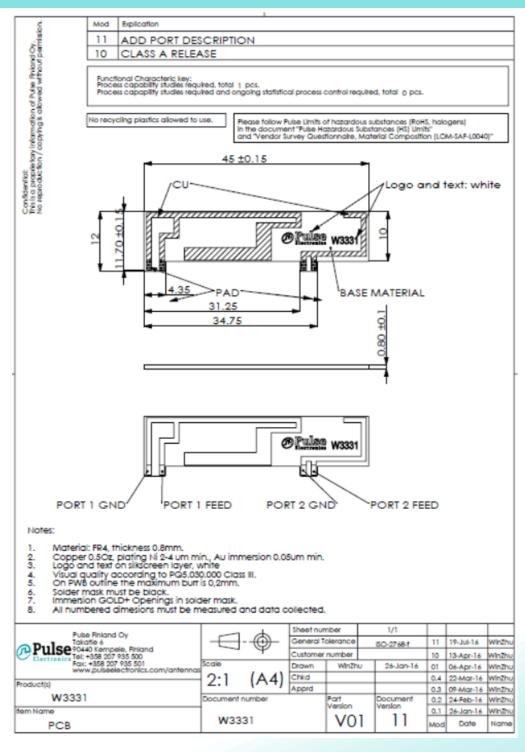


TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

MECHANICAL DRAWING



Issue: 1612

RóHS





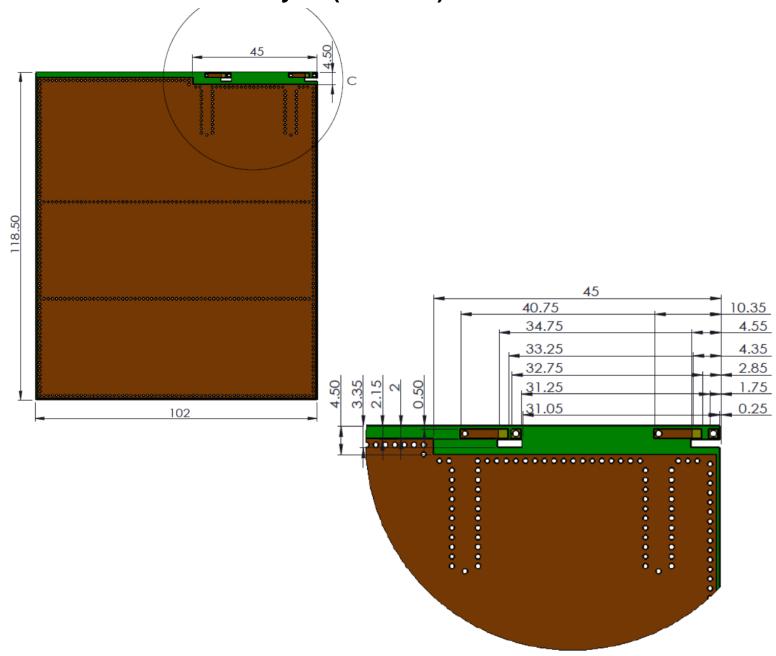
Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

Series: PCB Embedded

OTHER SPECIFICATIONS

Recommended PCB layout(Unit:mm)









Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

Series: PCB Embedded

OTHER SPECIFICATIONS 118.50 45 10.35 40.75 4.55 34.75 4.35 33.25 102 2.85 32.75 50 1.75 <u>3</u>1.25 31.05 0.25 0

Issue: 1612

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KOH5



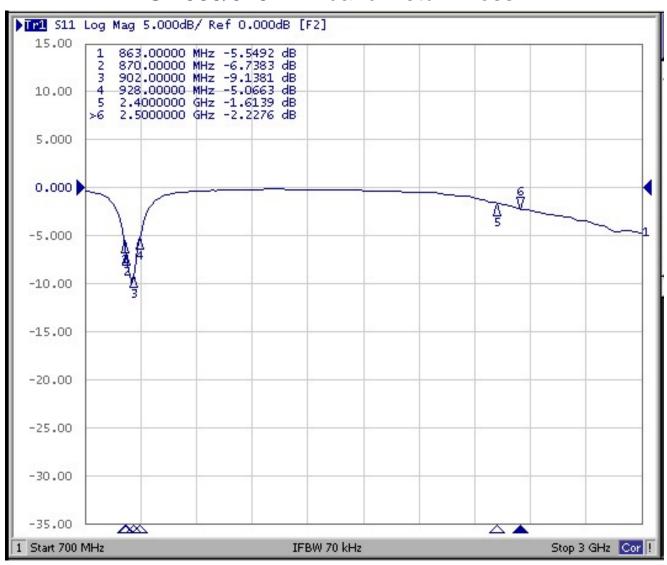
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

ISM868/915MHz band Return Loss









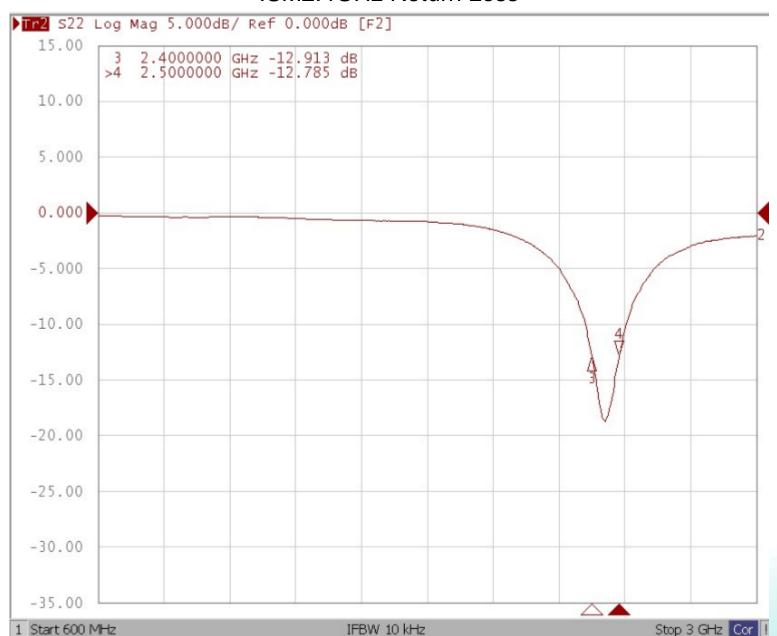
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

ISM2.4GHz Return Loss









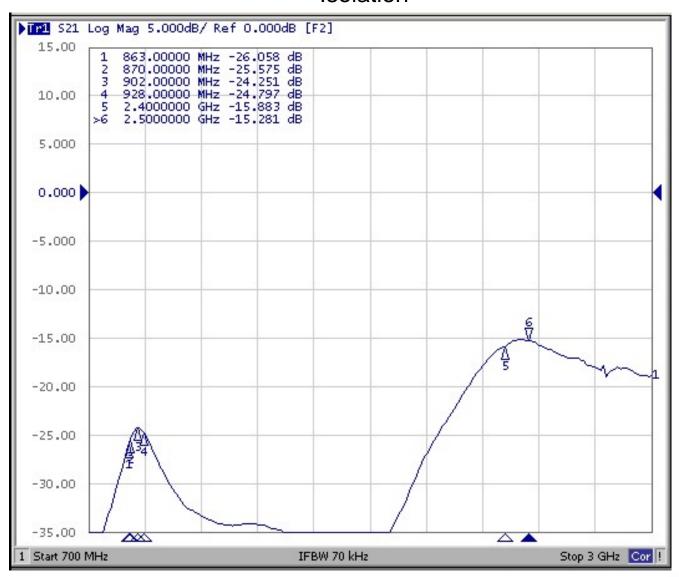
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Isolation









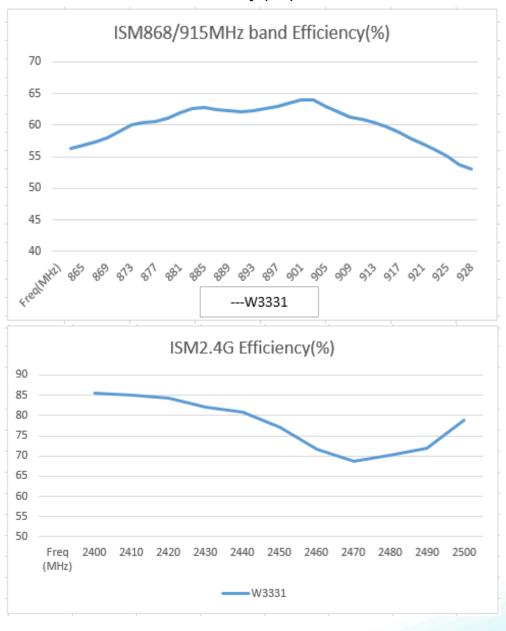
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Efficiency(%)







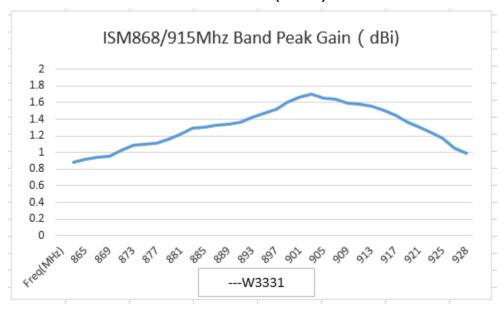
Description: ISM868/915MHz, 2.4GHz Ant

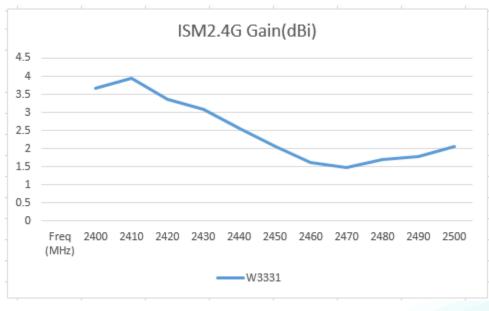
Series: PCB Embedded

PART NUMBER: W3331

CHARTS

Peak Gain (dBi)







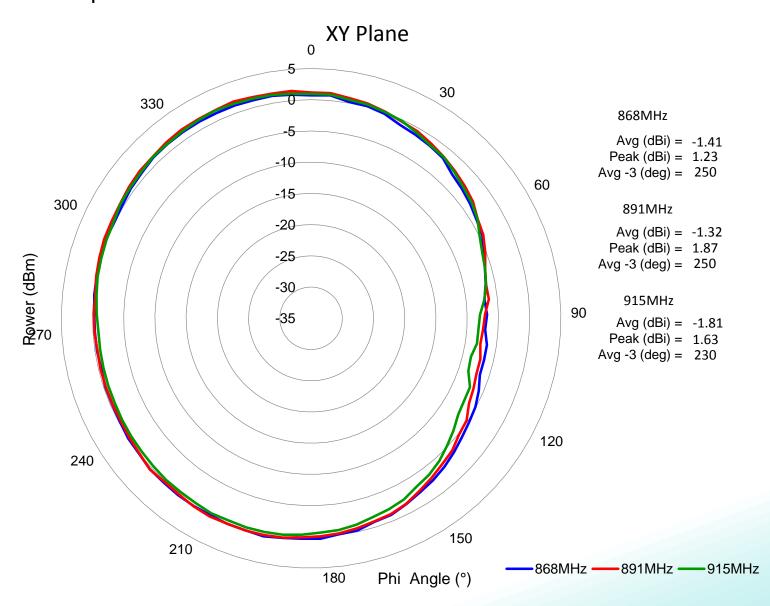
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Typical free space radiation pattern ISM868/915MHz X-Y plane





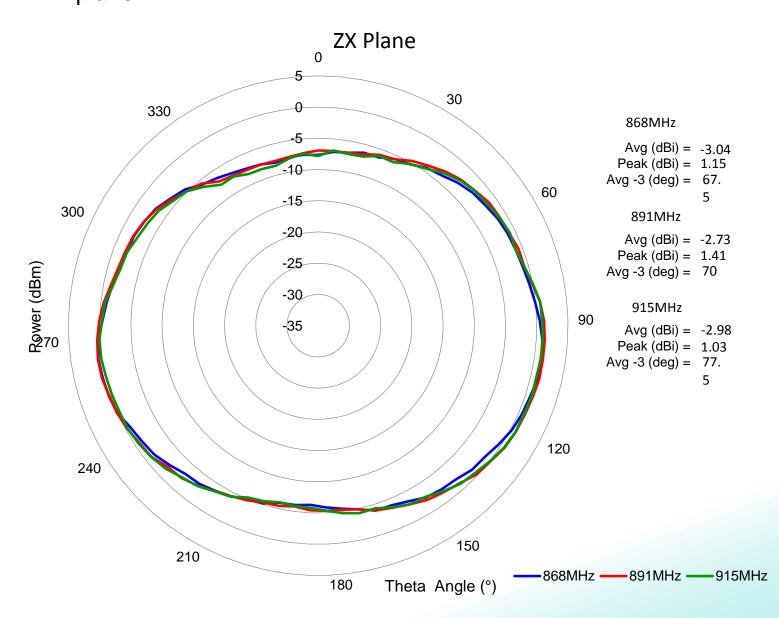
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Typical free space radiation pattern ISM868/915MHz Z-X plane





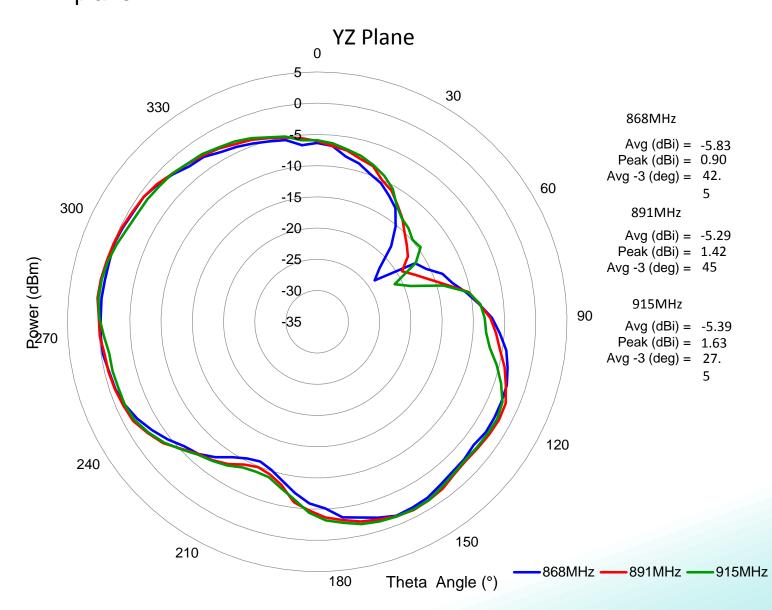
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Typical free space radiation pattern ISM868/915MHz Z-Y plane





Description: ISM868/915MHz, 2.4GHz Ant

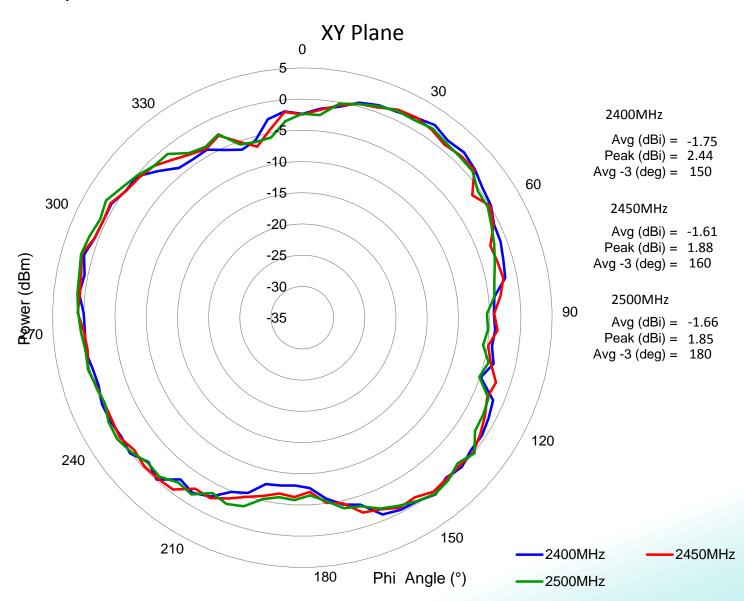
PART NUMBER: W3331

Typical free space radiation pattern

ISM2.4GHz

Series: PCB Embedded

X-Y plane









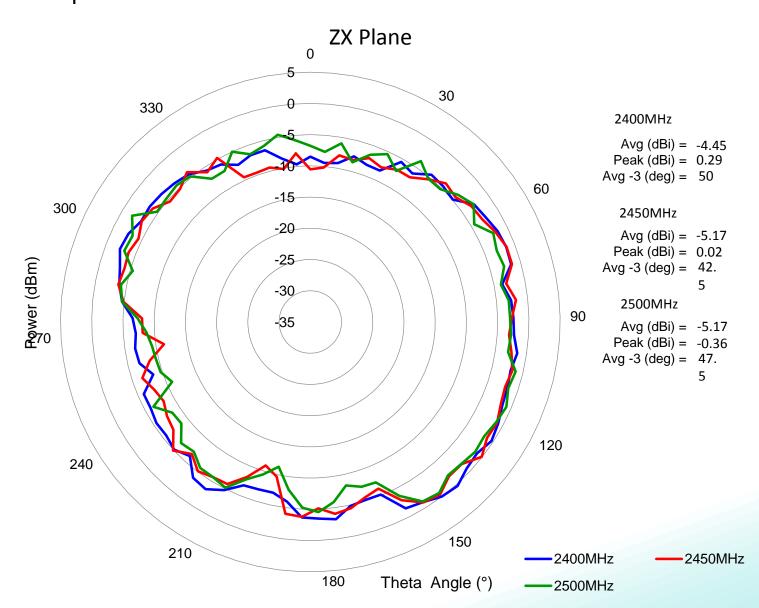
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Typical free space radiation pattern ISM2.4GHz Z-X plane









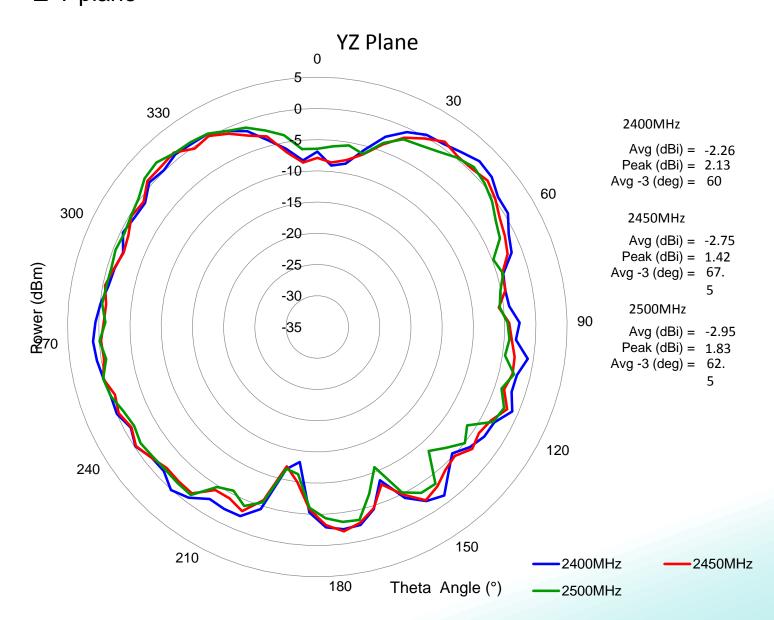
TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

CHARTS

Typical free space radiation pattern ISM2.4GHz Z-Y plane



Issue: 1612

ROHS



TECHNICAL DATA SHEET

Description: ISM868/915MHz, 2.4GHz Ant

PART NUMBER: W3331

PACKAGING

10PCS/PE bag 1000PCS/box

Mouser Electronics

Authorized Distributor

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