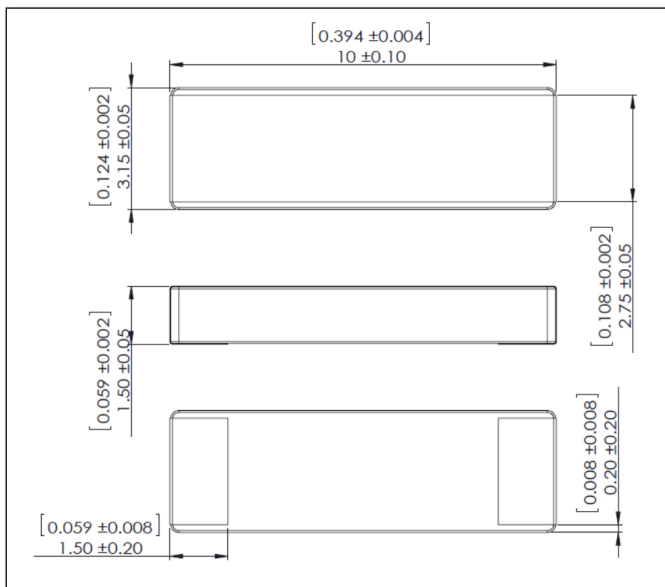


Description: ISM 868 / 915 MHz Chip Antenna**Series:** Ceramic**PART NUMBER:** W3014**Features:**

- Low profile
- Compact size W x L x H (10 x 3.2 x 1.5 mm)
- Low weight (240 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible

**Applications:**

- 868MHz radios
- 915MHz radios

All dimensions are in mm / inches

Issue: 2049

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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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: ISM 868 / 915 MHz Chip Antenna**Series:** Ceramic**PART NUMBER:** W3014**ELECTRICAL SPECIFICATIONS**

Frequency	848-888MHz/895-935MHz
Nominal Impedance	50Ω
Return loss	-7dB
Gain (Radiating element)	-0.5dBi +/- 1 dB
Radiation Pattern	Omni
Polarization:	linear
Total Efficiency	35%

Issue: 2049

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Description: ISM 868 / 915 MHz Chip Antenna**Series:** Ceramic**PART NUMBER:** W3014**MECHANICAL SPECIFICATIONS**

Size	10x3.2x1.5 mm
Weight	240 mg
MSL Level	1

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85° C
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Issue: 2049

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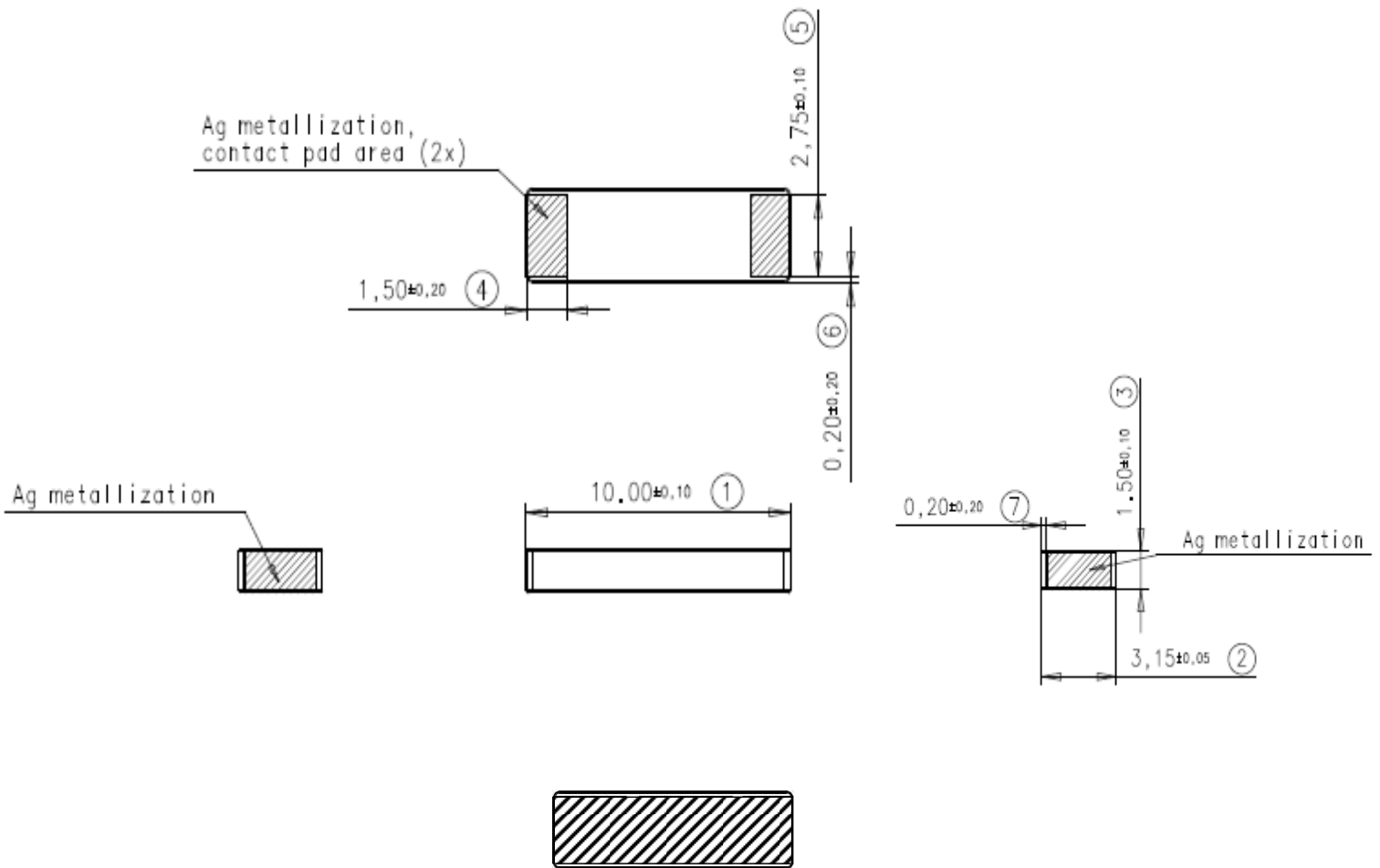
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Description: ISM 868 / 915 MHz Chip Antenna

Series: Ceramic

PART NUMBER: W3014

MECHANICAL DRAWING



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Description: ISM 868 / 915 MHz Chip Antenna

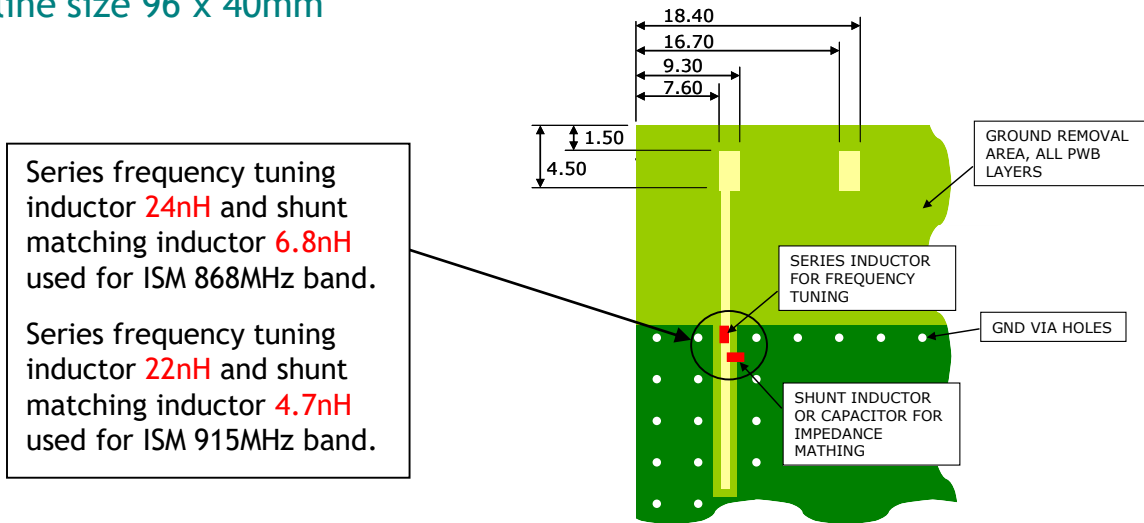
Series: Ceramic

PART NUMBER: W3014

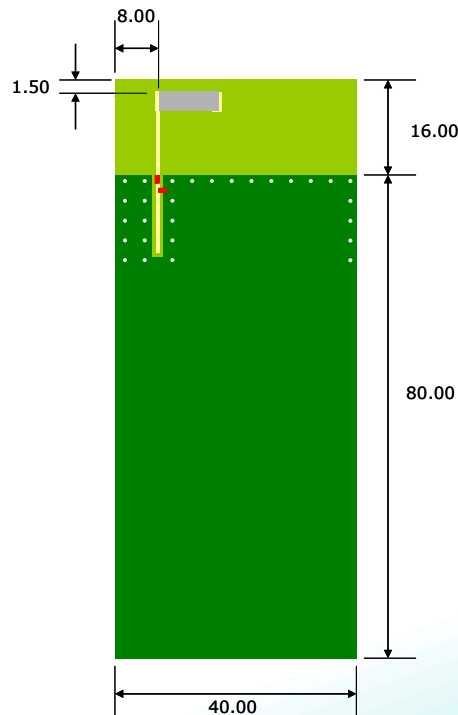
OTHER SPECIFICATIONS

Ground cleared under antenna, clearance area **40 mm x 16 mm**

Recommended test board layout for electrical characteristic measurement, test board outline size 96 x 40mm



Feed line should be designed to match 50 Ω characteristic impedance, depending on PWB material and thickness.



Matching and tuning component values depend on application and surrounding mechanics / materials

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Description: ISM 868 / 915 MHz Chip Antenna

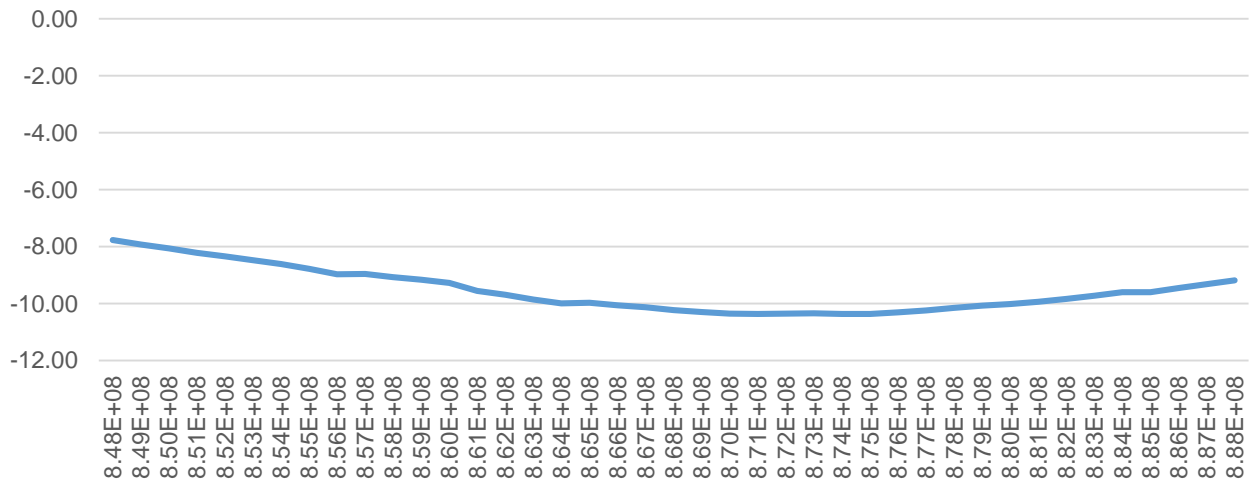
Series: Ceramic

PART NUMBER: W3014

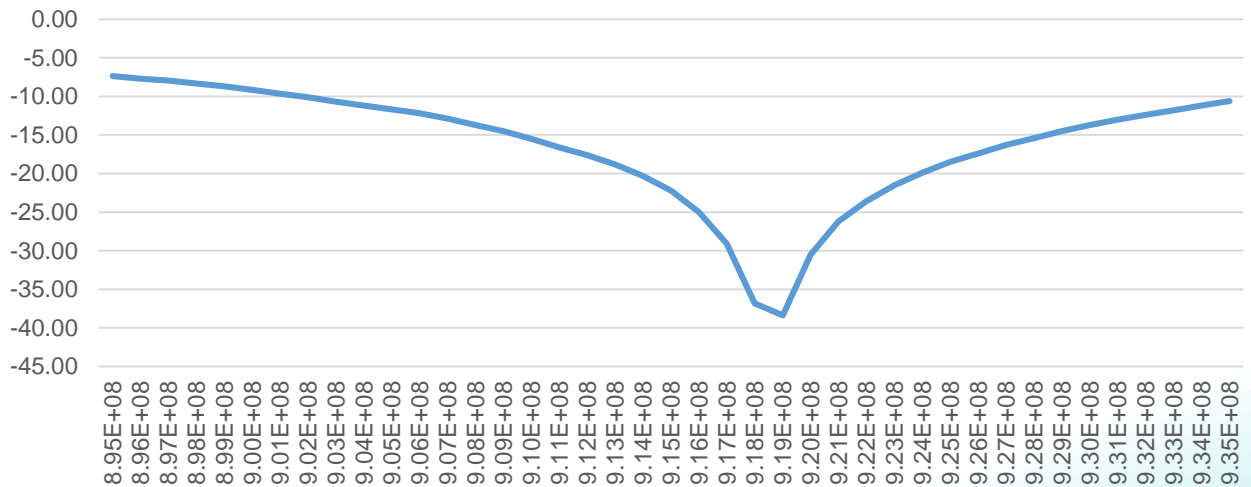
CHARTS

Return Loss

ISM 868MHz RL in free space



ISM 915MHz RL in free space



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Description: ISM 868 / 915 MHz Chip Antenna

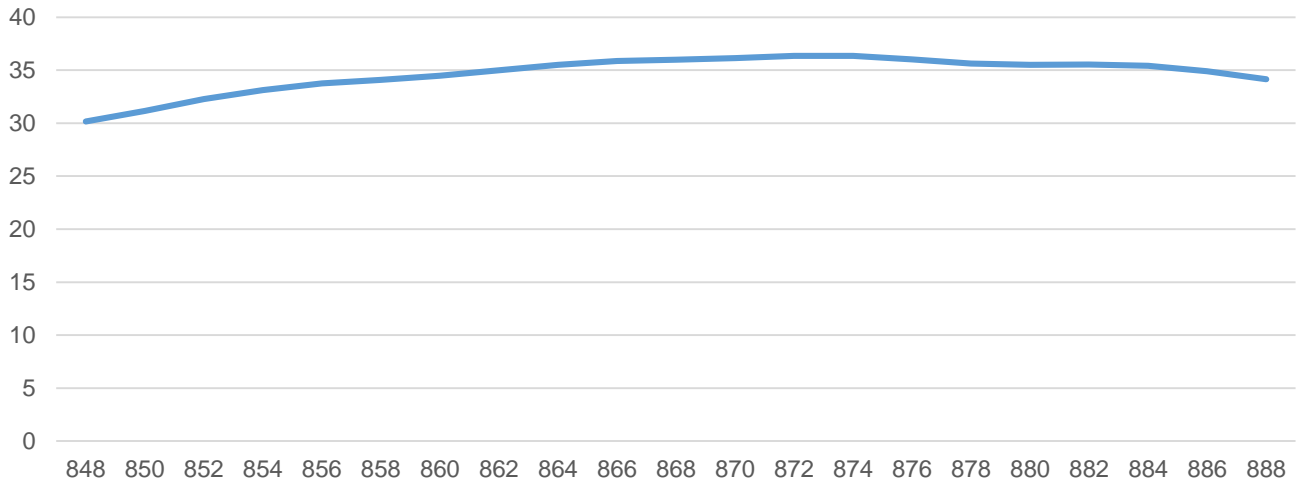
Series: Ceramic

PART NUMBER: W3014

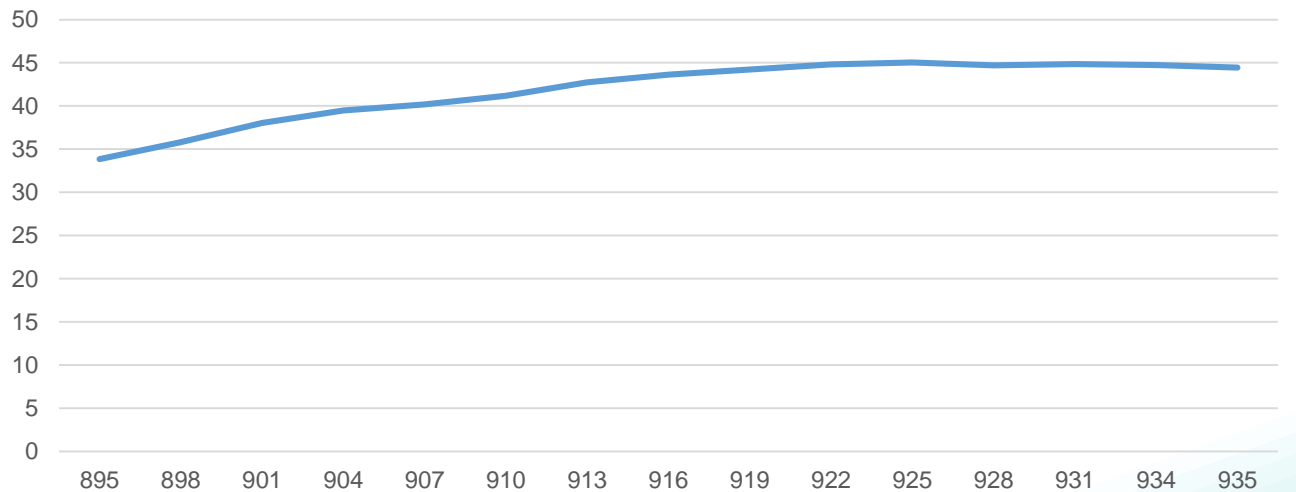
CHARTS

Efficiency(%)

ISM 868MHz Total Efficiency in free space, %



ISM 915MHz Total Efficiency in free space, %



Issue: 2049

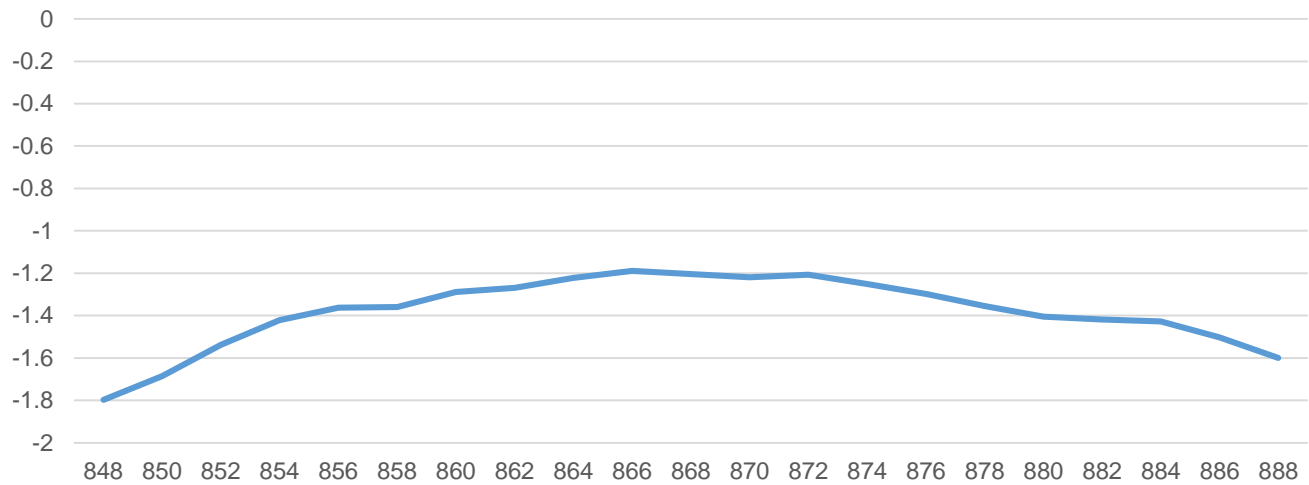
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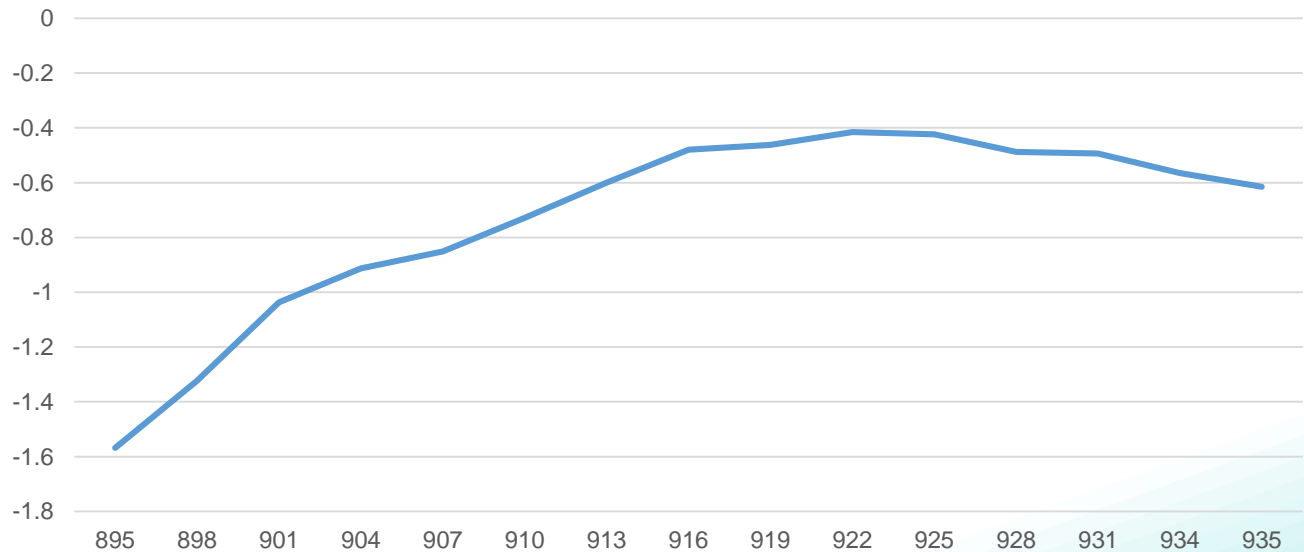
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Description: ISM 868 / 915 MHz Chip Antenna**Series:** Ceramic**PART NUMBER:** W3014**CHARTS****Peak Gain(dBi)**

ISM 868MHz Peak Gain in free space, dBi



ISM 915MHz Peak Gain in free space, dBi



Issue: 2049

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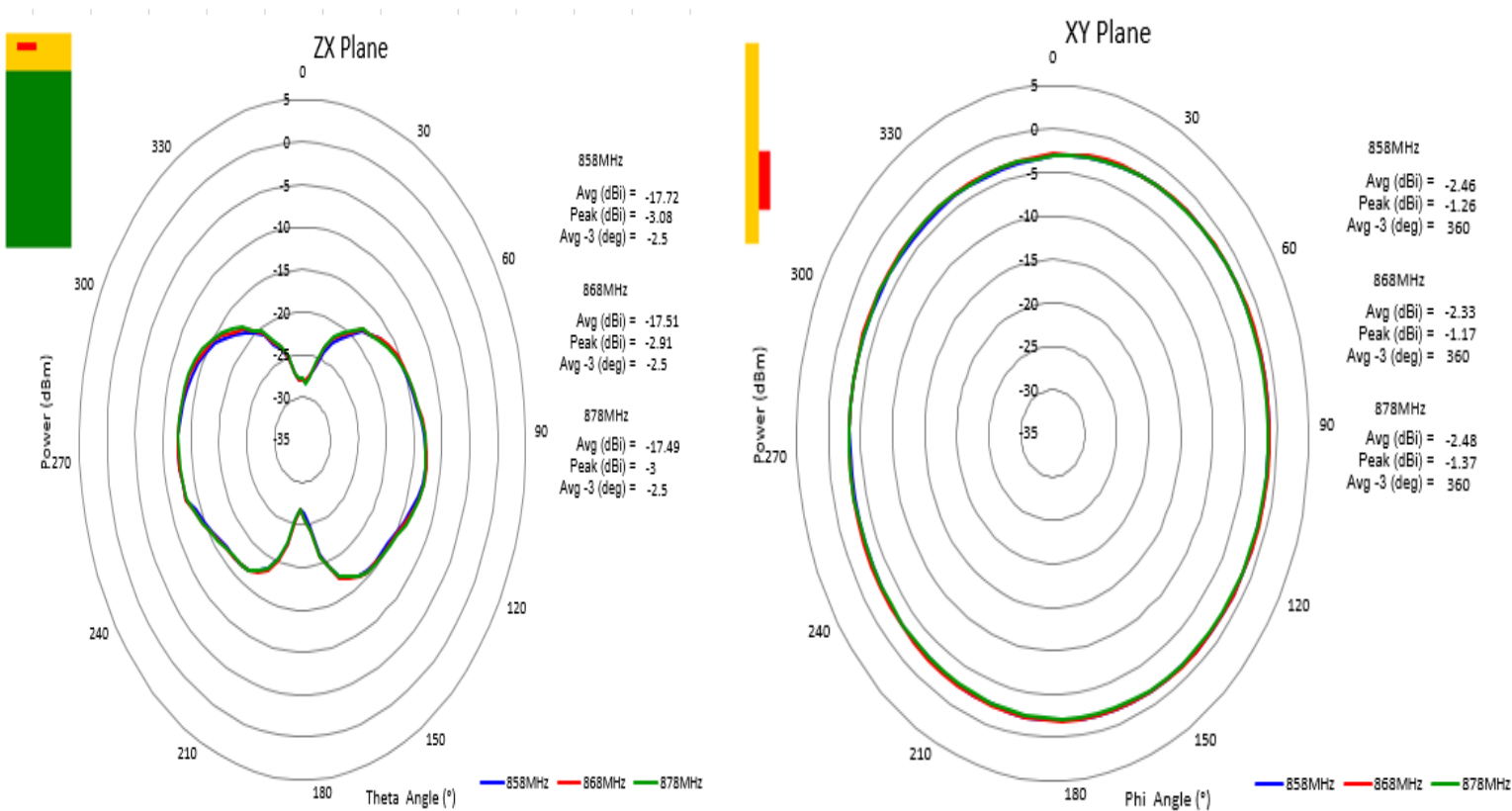
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CHARTS

free space radiation pattern

ISM 868MHz radiation pattern



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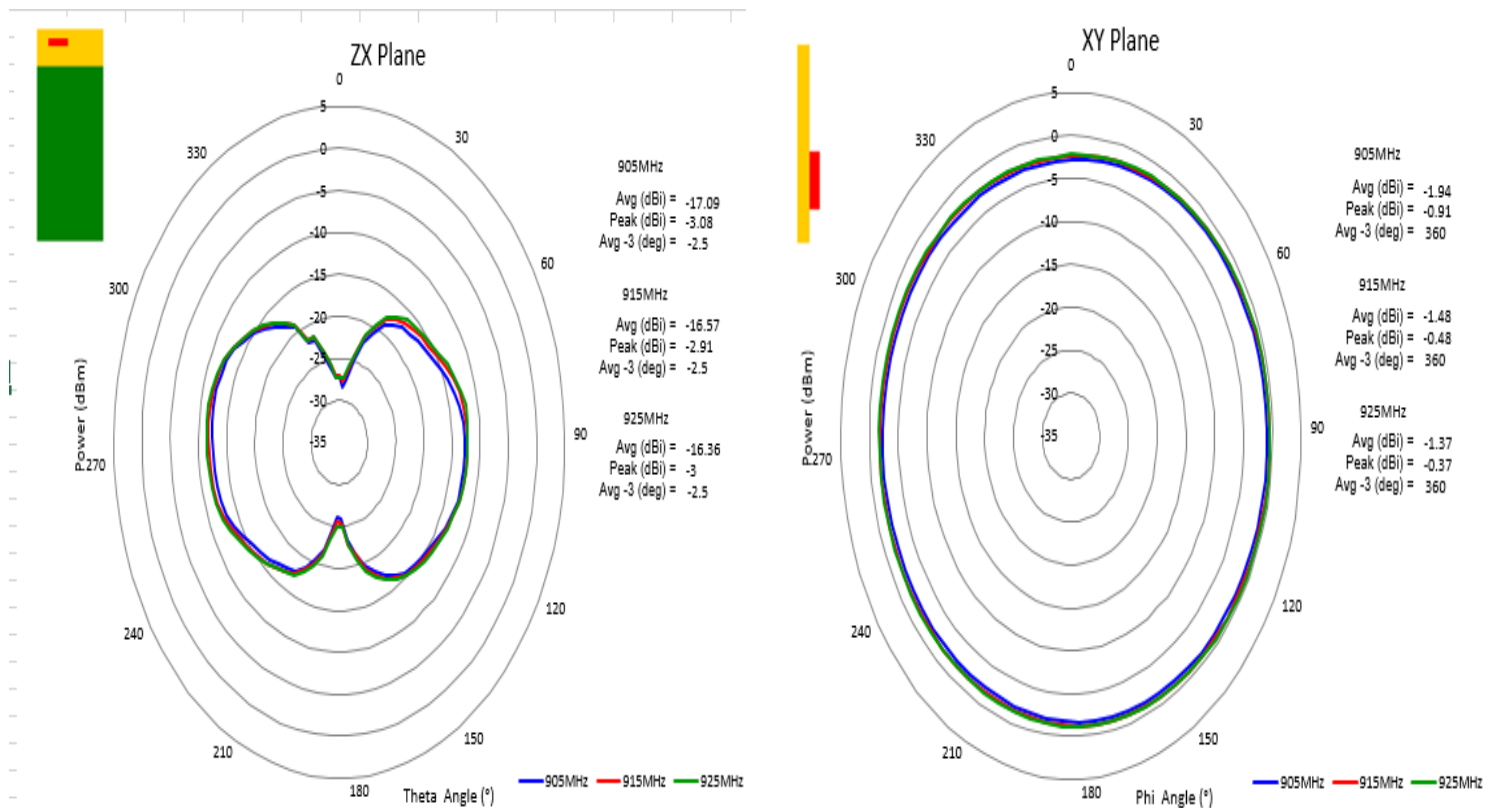
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CHARTS

free space radiation pattern

ISM 915MHz radiation pattern



Description: ISM 868 / 915 MHz Chip Antenna

Series: Ceramic

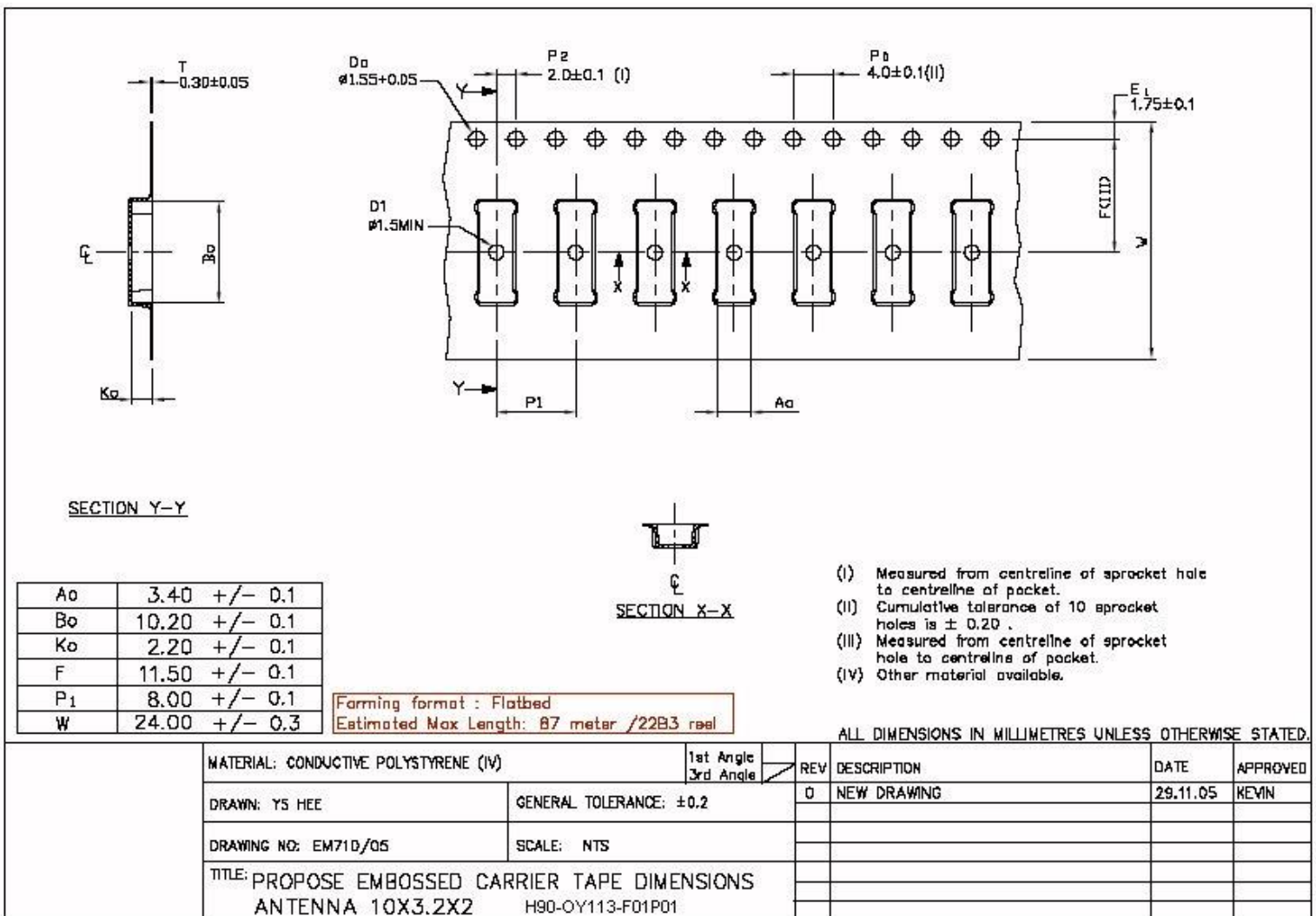
PART NUMBER: W3014

PACKAGING

General

Tape and reel packing is used. Carrier tape, reel and box dimensions are presented in following pictures.

Carrier tape



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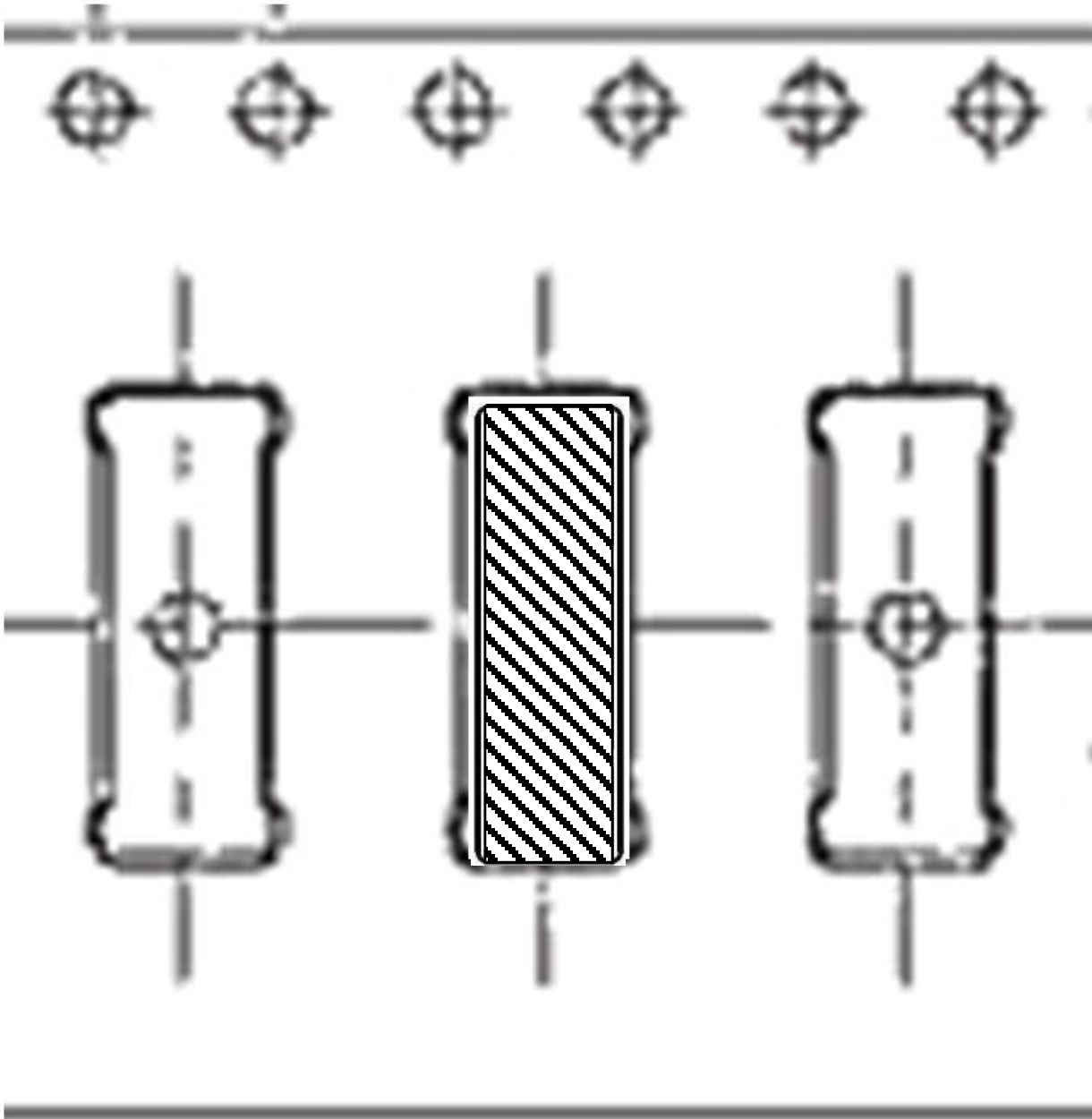
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Description: ISM 868 / 915 MHz Chip Antenna

Series: Ceramic

PART NUMBER: W3014

Block orientation



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