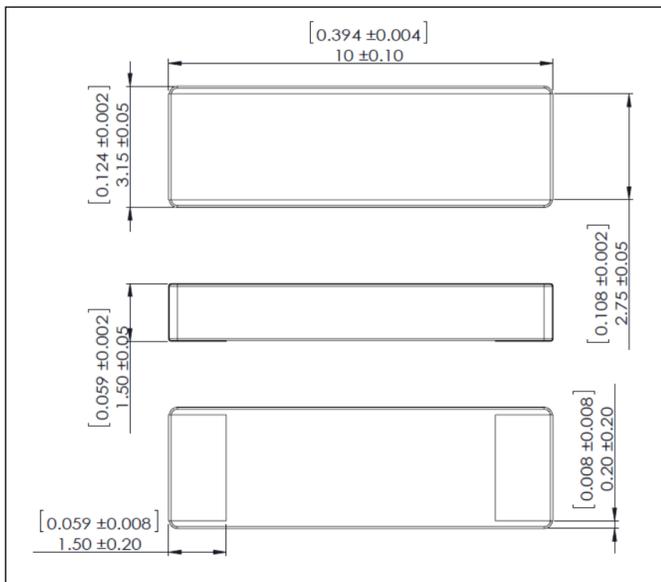




Features:

- 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

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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%

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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

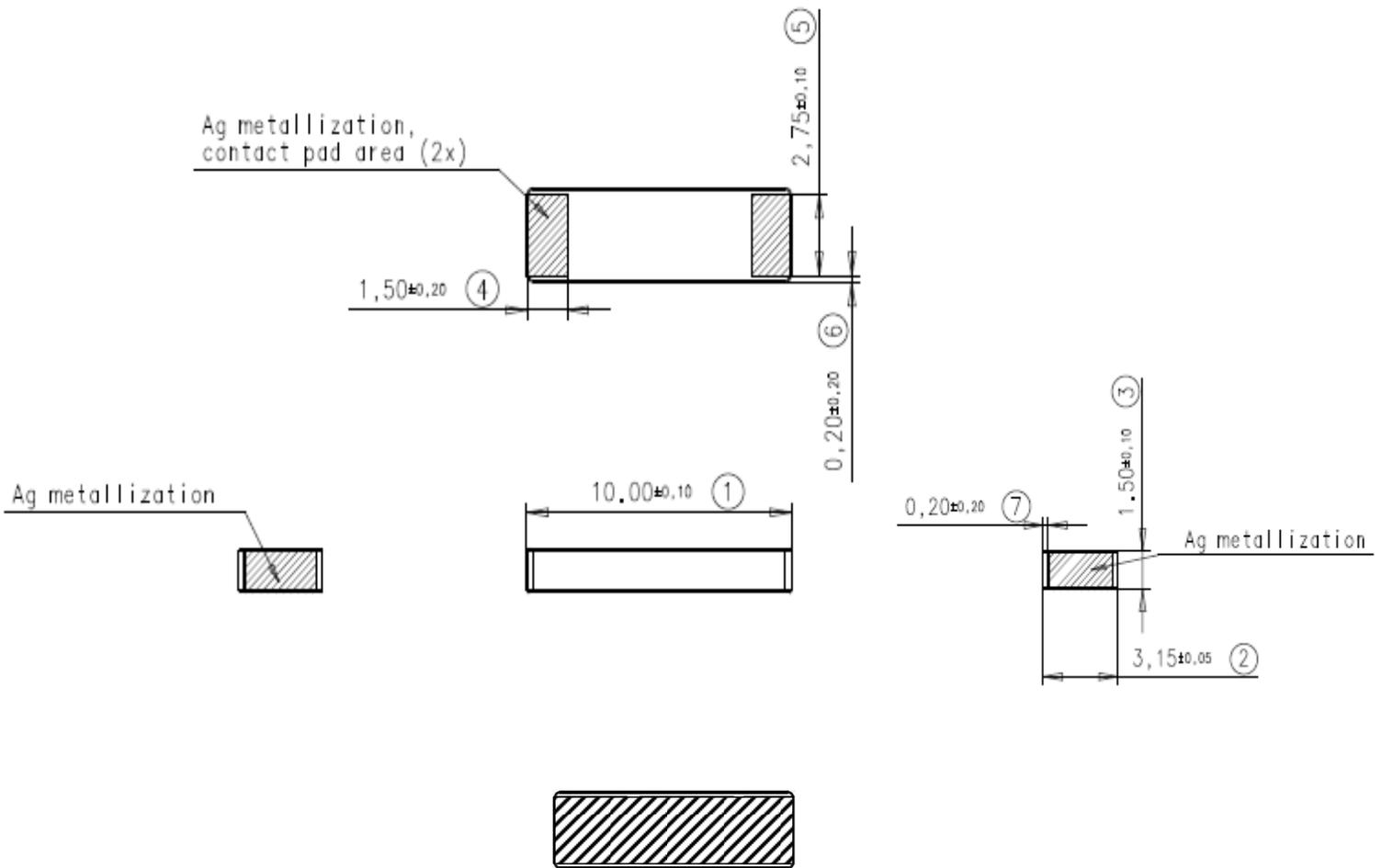
Operating temperature	-40/+85° C
-----------------------	------------

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

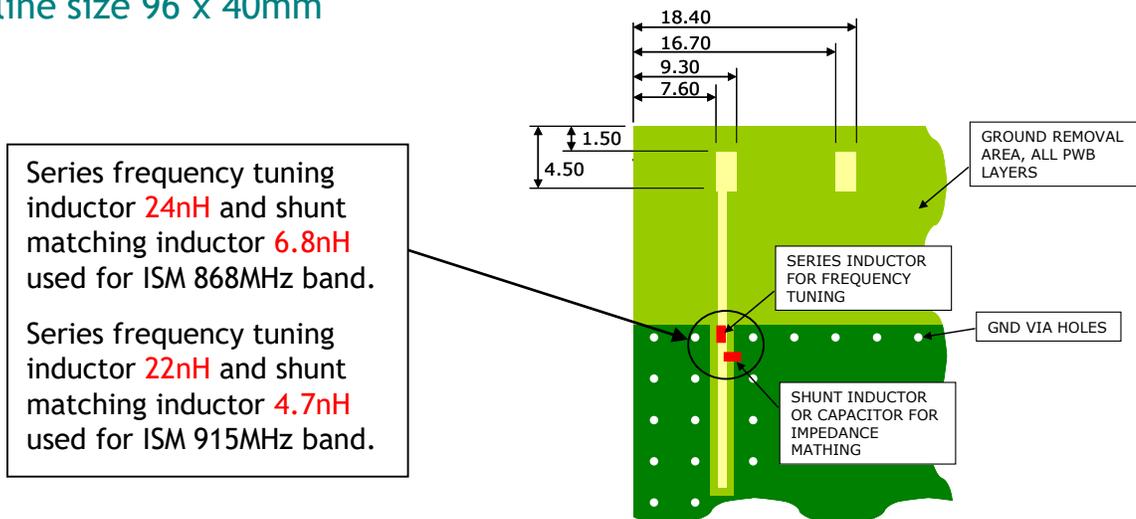
Series: Ceramic

PART NUMBER: W3014

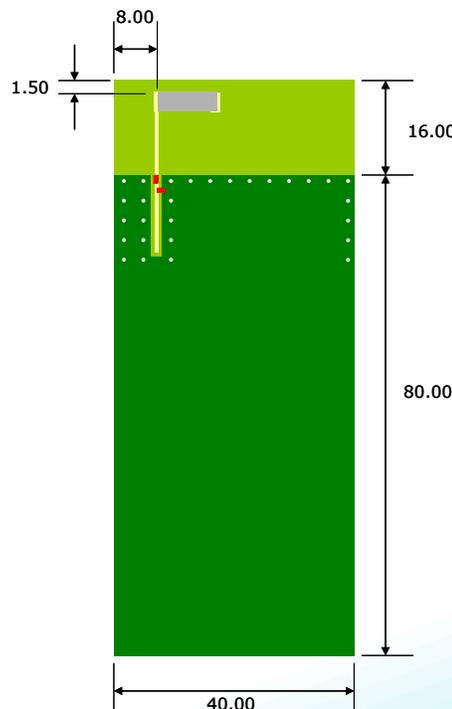
OTHER SPECIFICATIONS

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

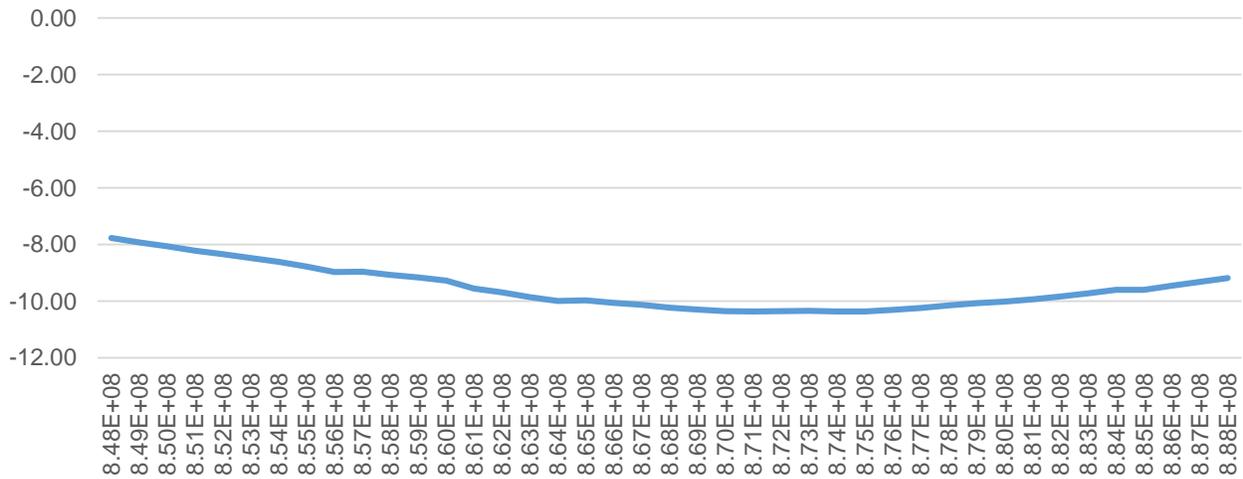
Series: Ceramic

PART NUMBER: W3014

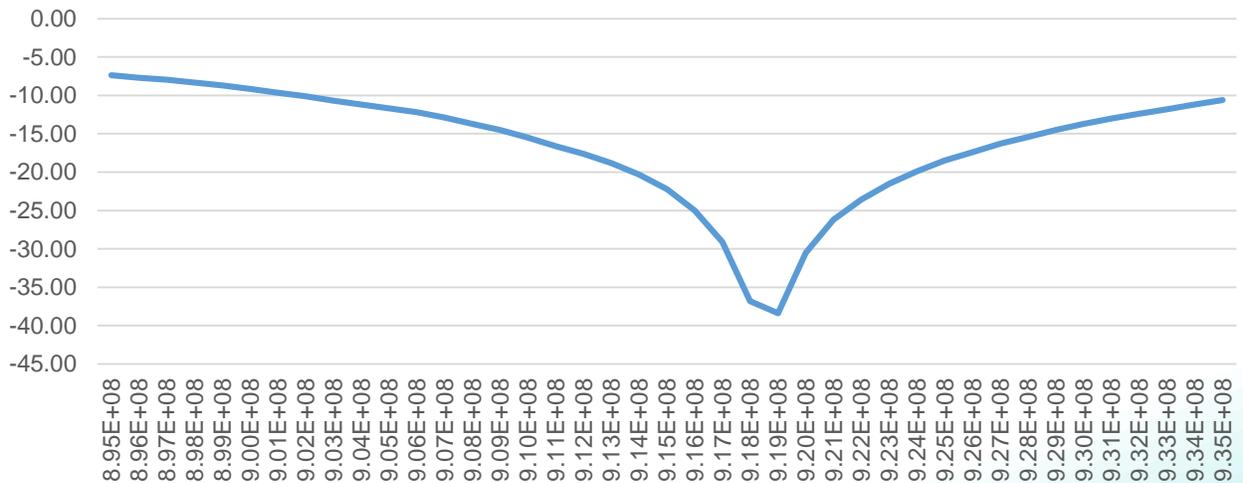
CHARTS

Return Loss

ISM 868MHz RL in free space



ISM 915MHz RL in free space



Issue: 2049

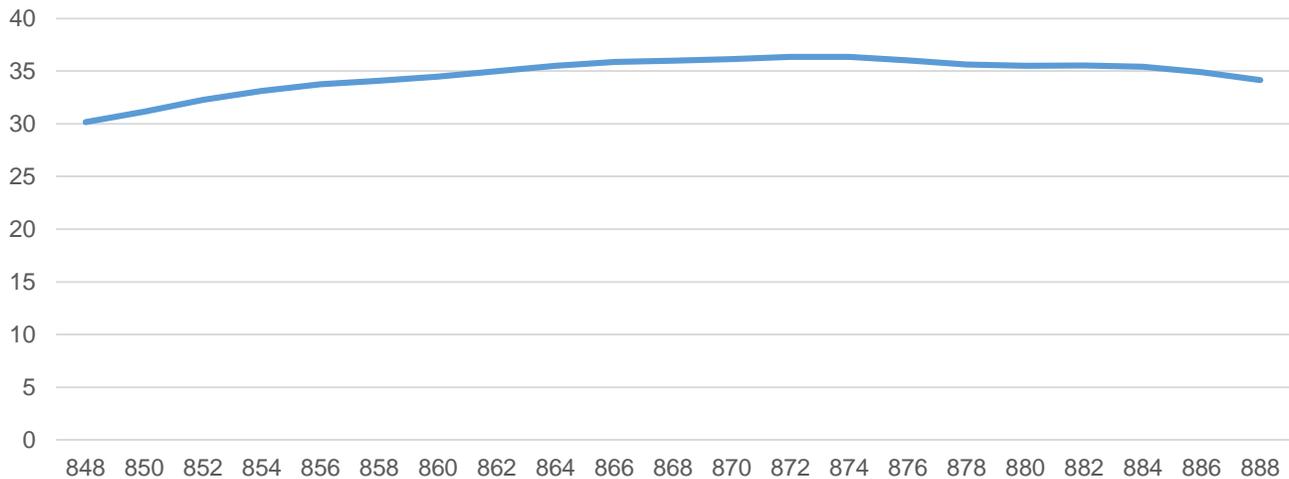
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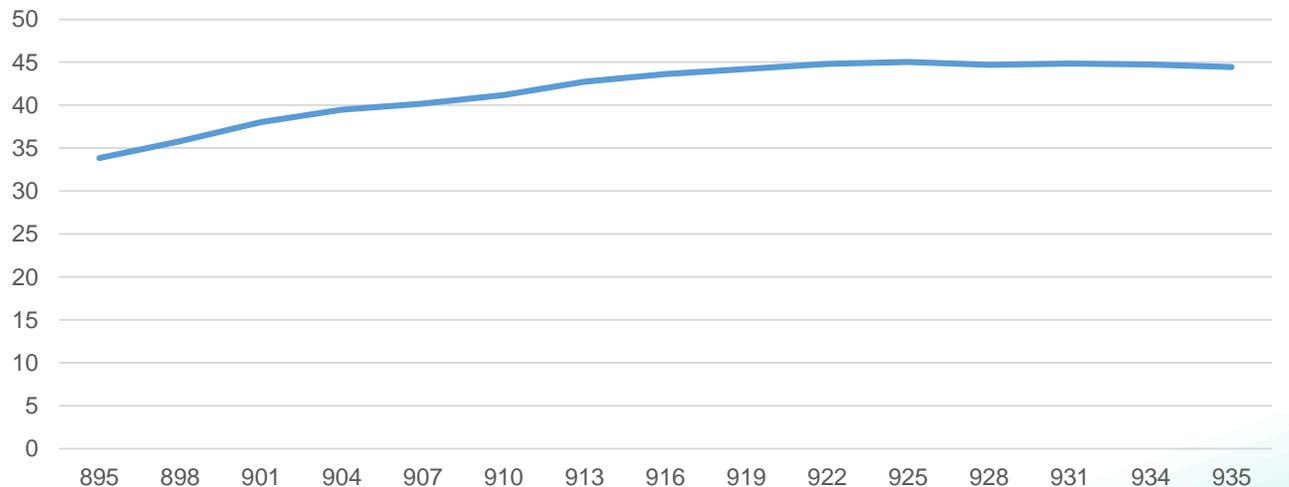
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Description: ISM 868 / 915 MHz Chip Antenna**Series:** Ceramic**PART NUMBER:** W3014**CHARTS****Efficiency(%)**

ISM 868MHz Total Efficiency in free space, %



ISM 915MHz Total Efficiency in free space, %



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Description: ISM 868 / 915 MHz Chip Antenna

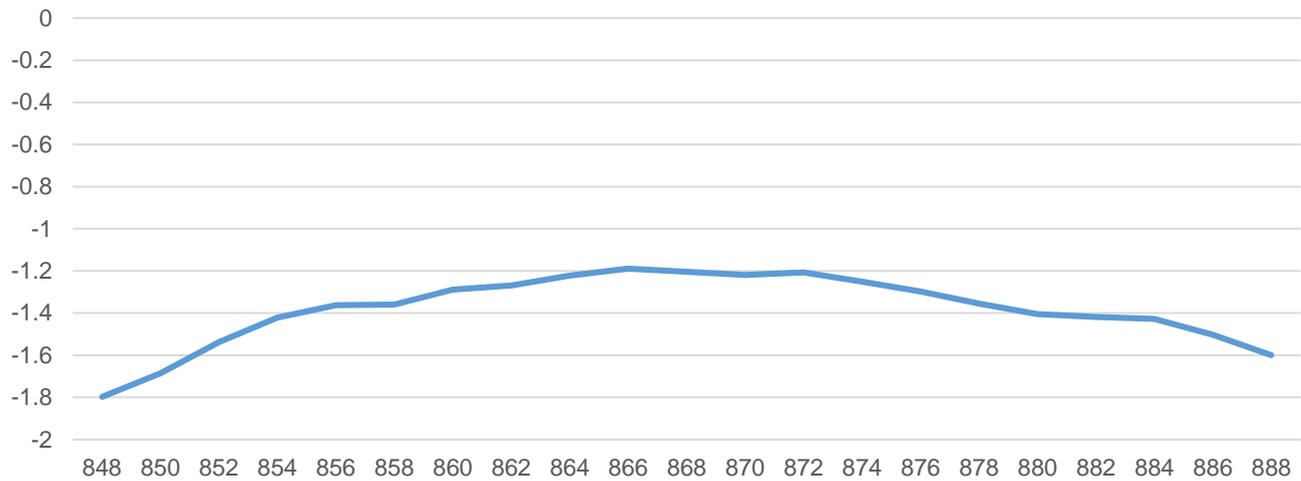
Series: Ceramic

PART NUMBER: W3014

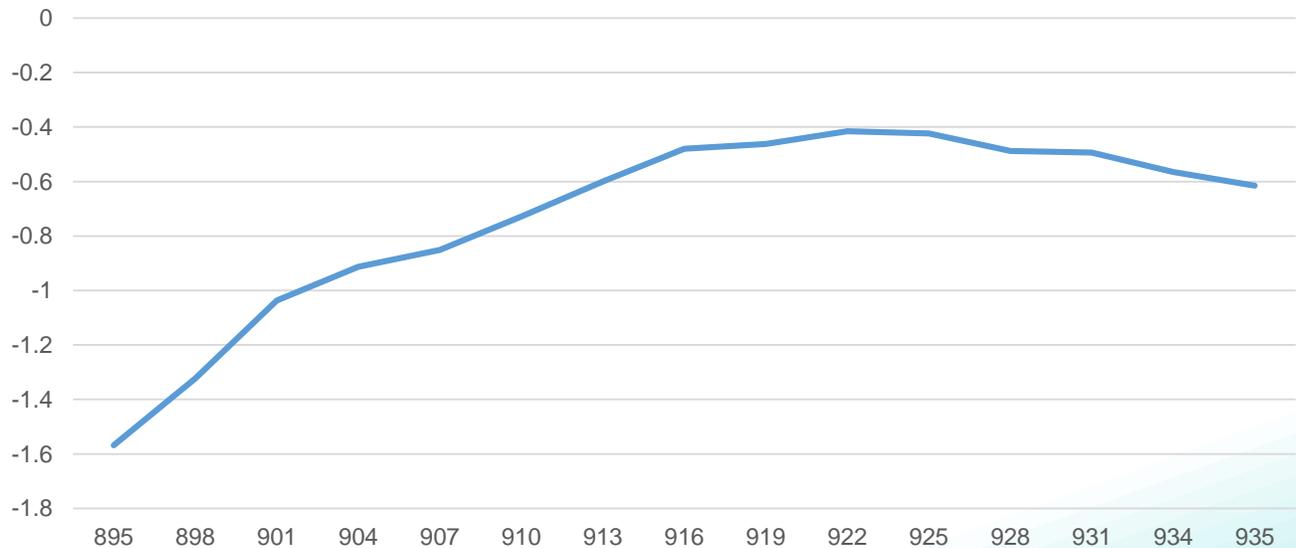
CHARTS

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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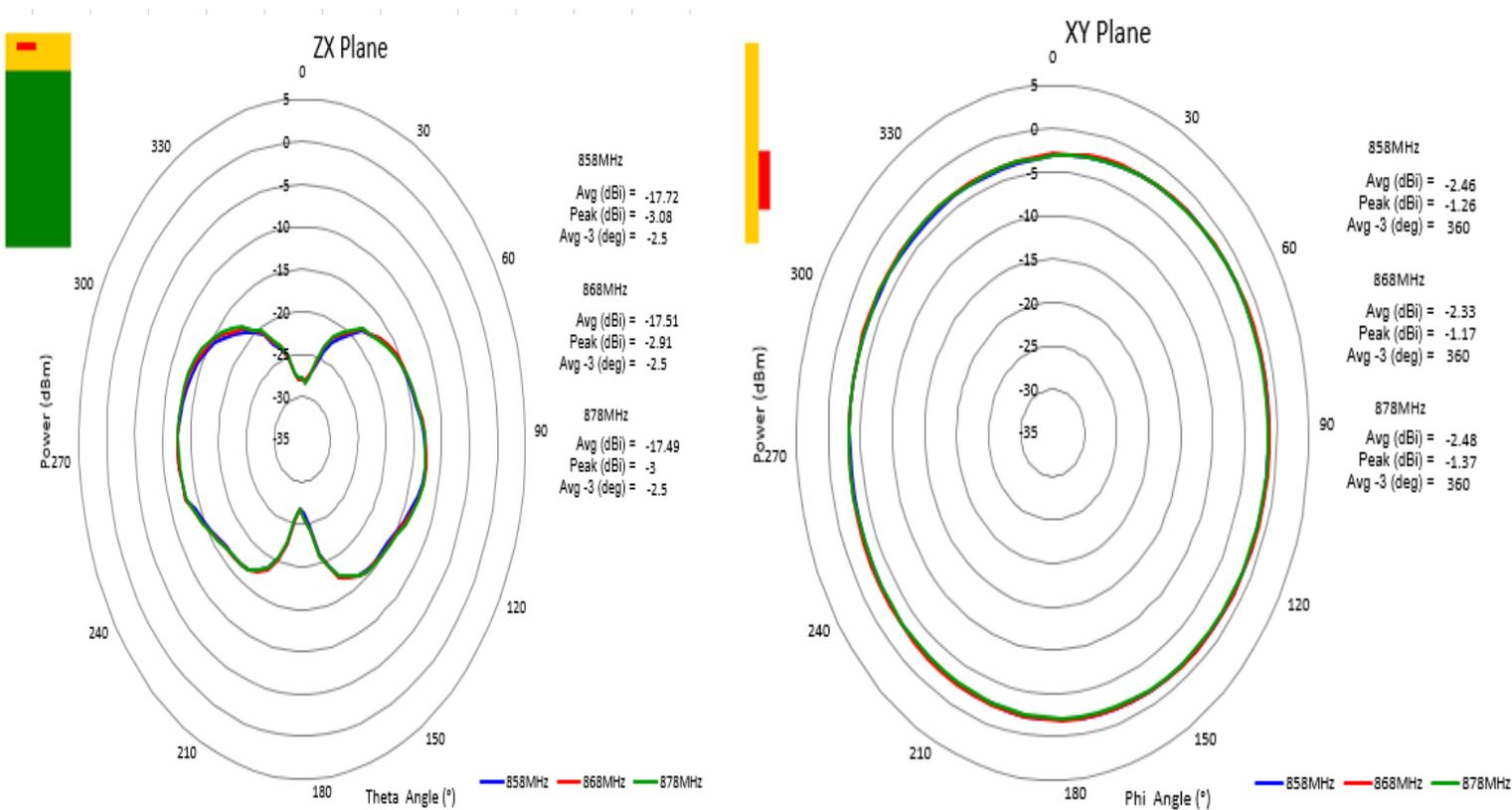
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CHARTS

free space radiation pattern

ISM 868MHz radiation pattern



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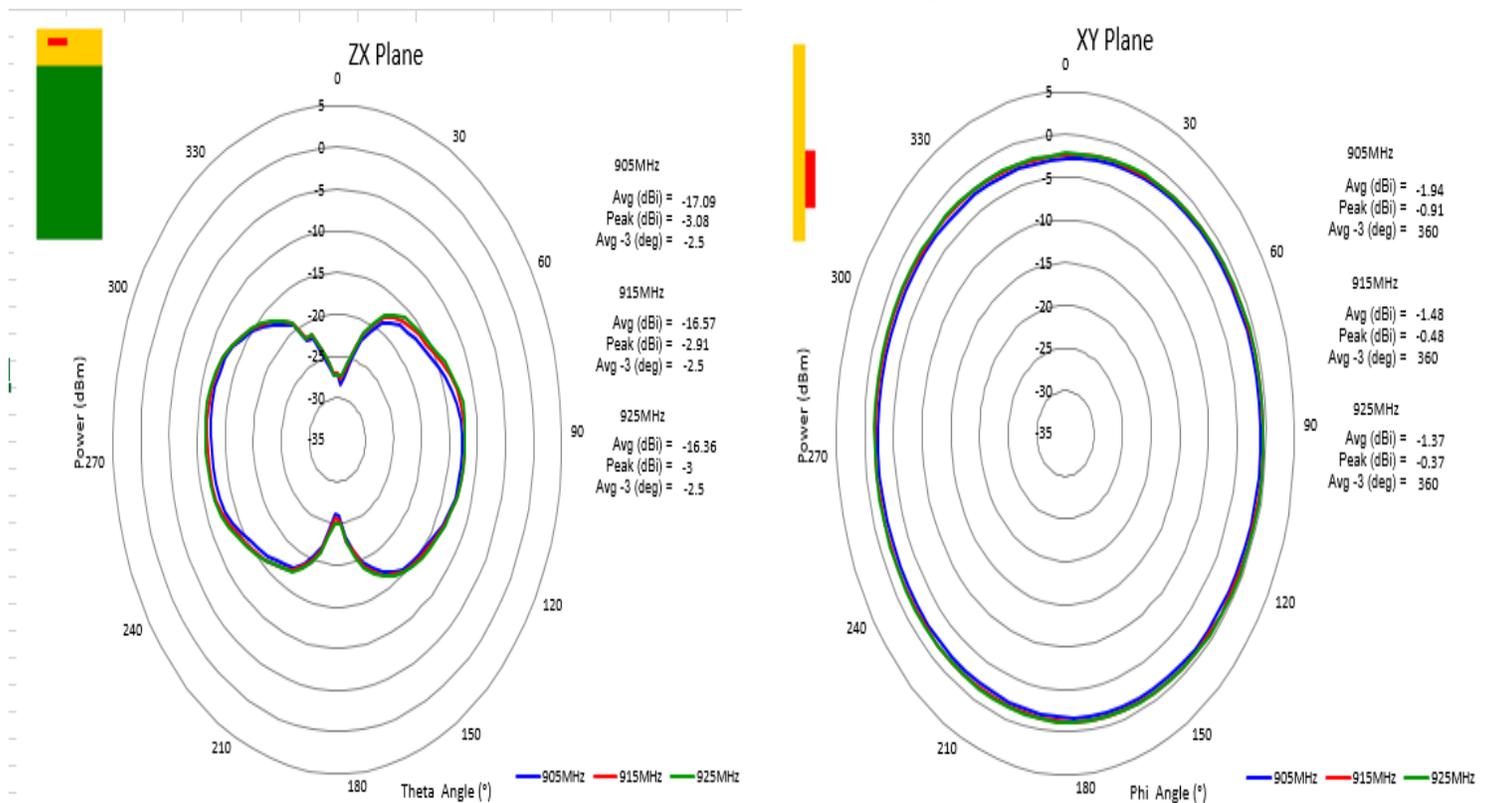
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CHARTS

free space radiation pattern

ISM 915MHz radiation pattern

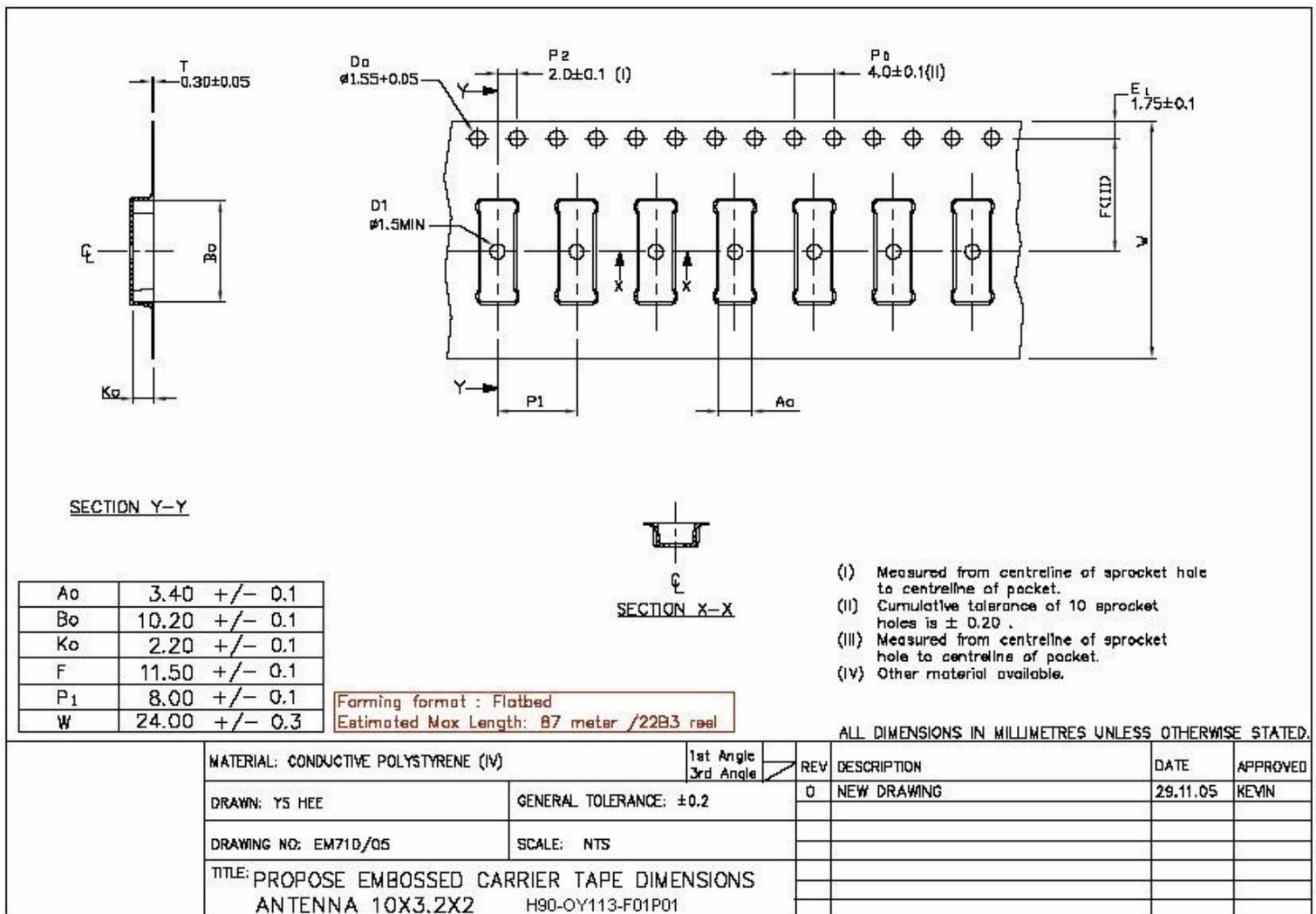


PACKAGING

General

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

Carrier tape



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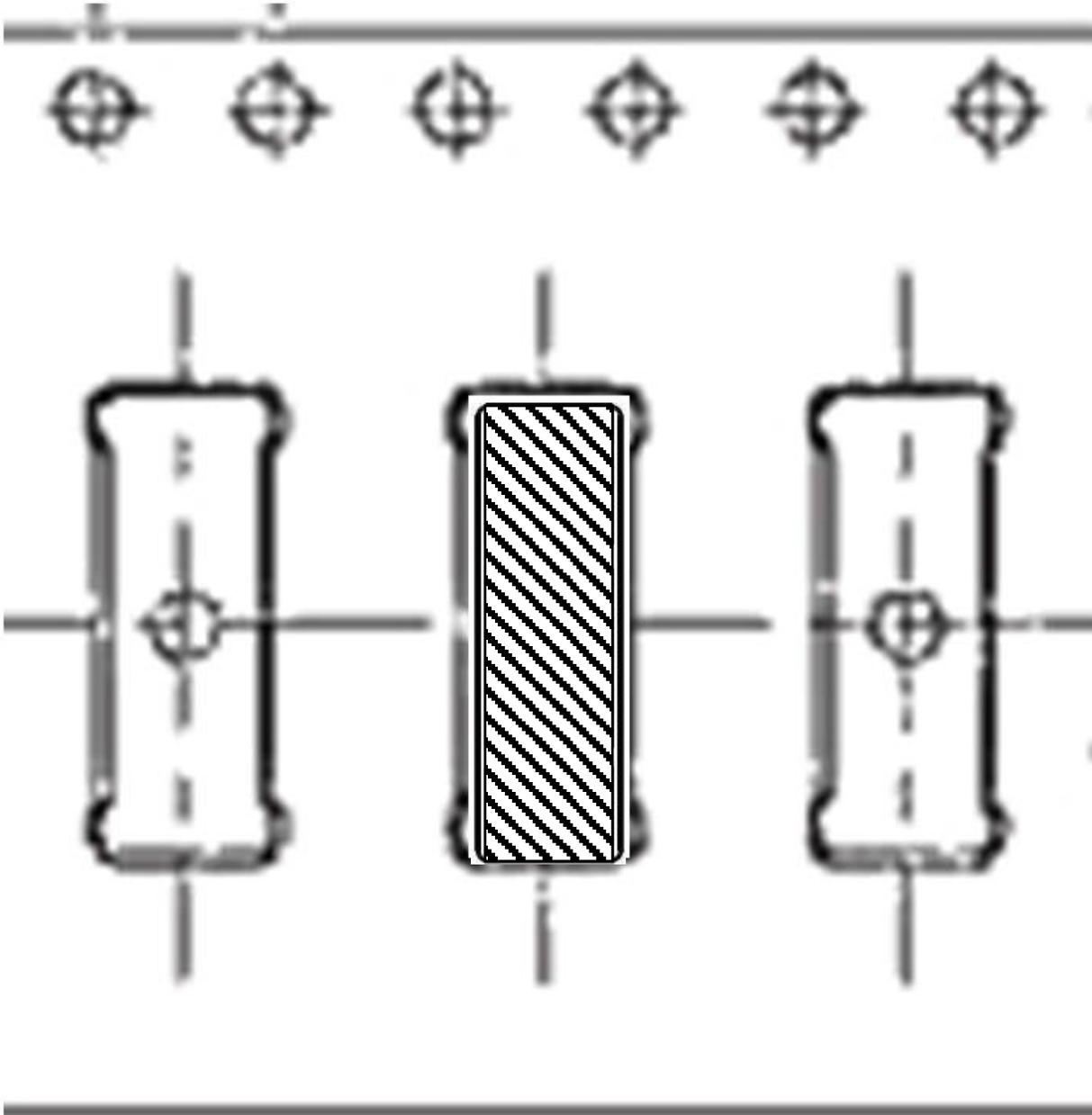
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Description: ISM 868 / 915 MHz Chip Antenna

Series: Ceramic

PART NUMBER: W3014

Block orientation



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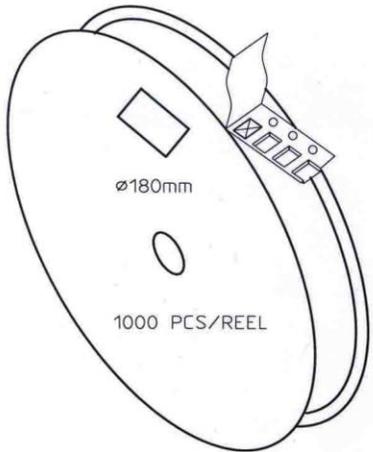
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Description: ISM 868 / 915 MHz Chip Antenna

Series: Ceramic

PART NUMBER: W3014

Packing form



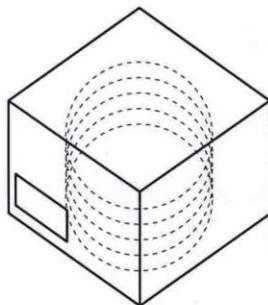
ø180mm
1000 PCS/REEL

CARRIER TAPE H85-00168
width=24,00 depth=2.20
COVER TAPE H85-00159
width=21.20

LENGTH OF TAPE:

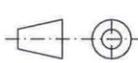
- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



BOX H85-00128 1 pcs
(182x182x125)
- LABEL 1 pcs/BOX

REEL H85-00160 4 pcs
(D180, W28)
- REEL LABEL 1 pcs/REEL

MATERIAL		HANDLINGS			
		RATIO	DRWN	160107 PeHa	H
		DGNER			G
		CHKD			F
		APPRD			E
PRODUCT		APPRD BY		D	
H90-OY113-F01P01 DENOMINATION PACKING FORM				C	
				B	
				A	
		VERSION	MOD/DATE/NAME		

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[SR4G008-U1](#) [SR4G013-U1](#) [SR4G053-EVB-1](#) [SR4L049-EVB-1](#) [SRC5G027-U1](#) [SRCW004-U1](#) [1001312-01](#) [M310220-01](#) [M620720-01](#)
[M830120-01](#) [M830520-01](#) [EB_NN01-105A](#) [EB_NN02-201-5G](#) [CCKLTE450-NA](#) [AEK-GNCP-TH258L15](#) [MPA-104- KIT](#)