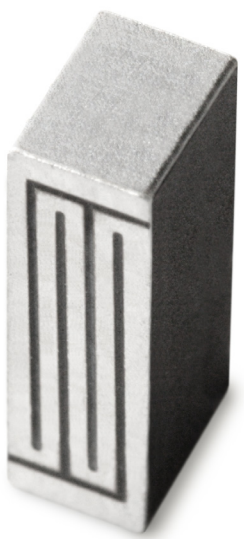
ISM 900 MHz Ceramic Antenna

Ground cleared under antenna, clearance area 10.80 mm x 8.25 mm. Pulse Part Number: W3012



Features

- Omni directional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 4 mm)
- Low weight (600 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- ISM 900 Band

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and Ground Clearance area size.

ISM 902 – 928 MHz

Typical performance (test board size 100 x 37 mm, PWB ground clearance area 10.80 mm x 8.25)

Frequency Range [MHz]	RHCP Gain [dBic]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
902 – 928	0.85 (Peak) 0.5 (Band edges)	2 (peak) 0.5 (band edges)	70 / -1,55 (peak) 50 / -3 (band edges)	-6	50	-40 to +85

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90440 Kempele, Finland
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Fax: +358 207 935 501
www.pulseeng.com/antennas

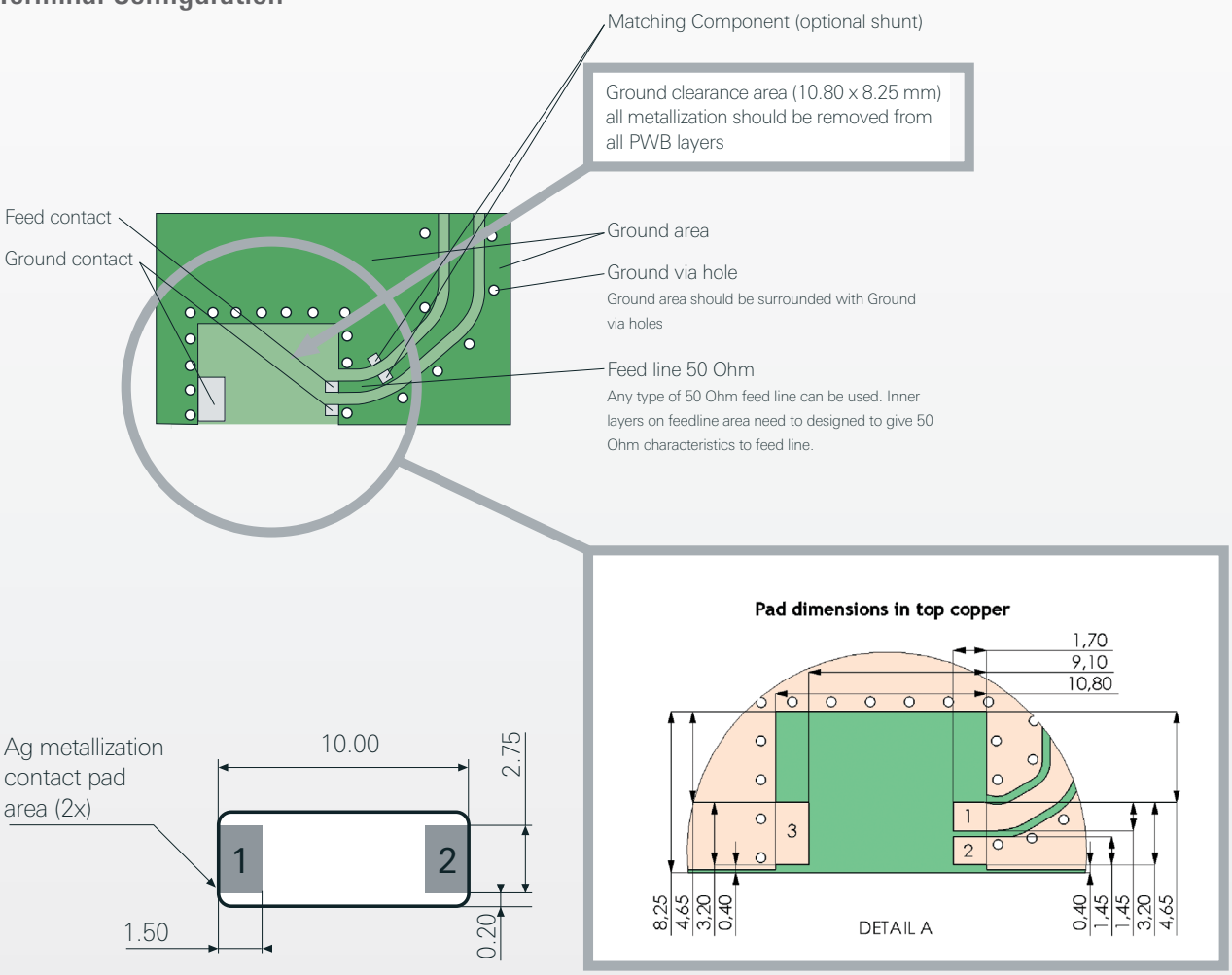
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Terminal Configuration



Antenna features

No.	Terminal name	Terminal Dimensions
1	Feed / GND	1.5 x 2.75 mm
2	Feed / GND	1.5 x 2.75 mm

Antenna is symmetrical.
Either of terminals 1 or 2 can be feed / GND

PWB features

No.	Terminal name	Terminal Dimensions
1	Feed	1,7 x 1,45 mm
2	GND	1,7 x 1,45 mm
3	GND	1,7 x 3,20 mm

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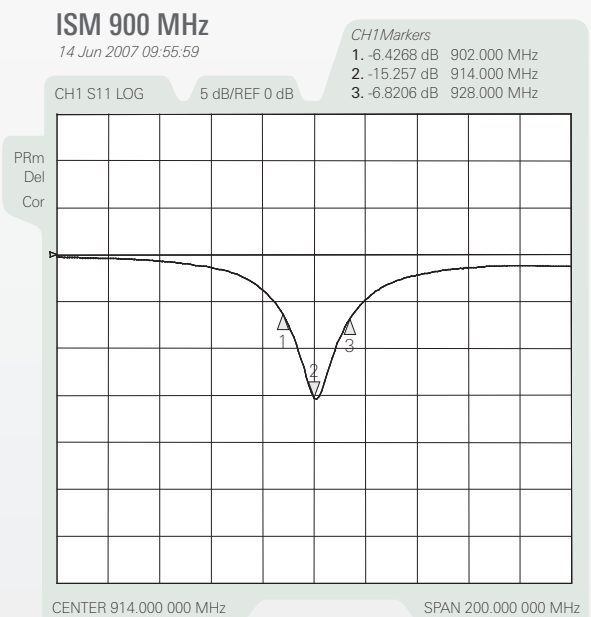
ISM 900 MHz Ceramic Antenna

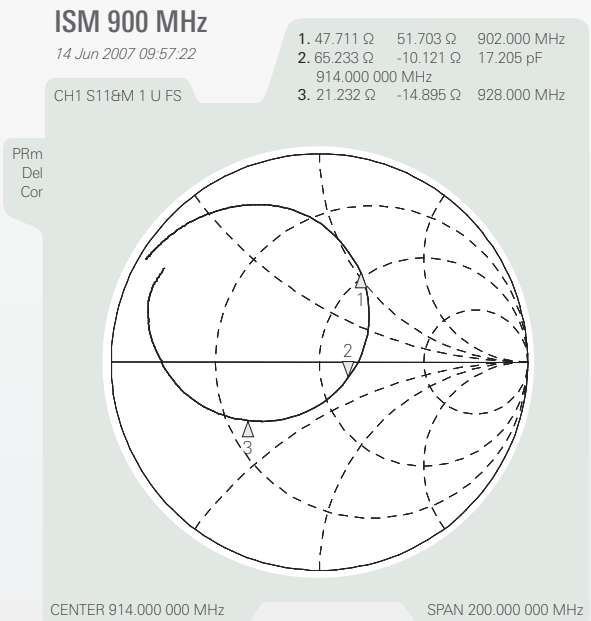
Ground cleared under antenna, clearance area 10.80 mm x 8.25 mm. Pulse Part Number: W3012

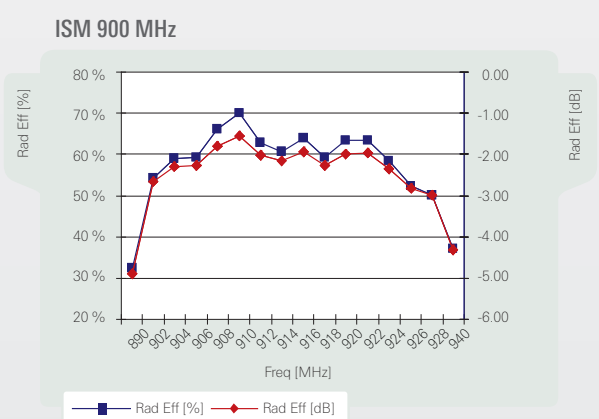
Typical Electrical Characteristics (T=25 °C)

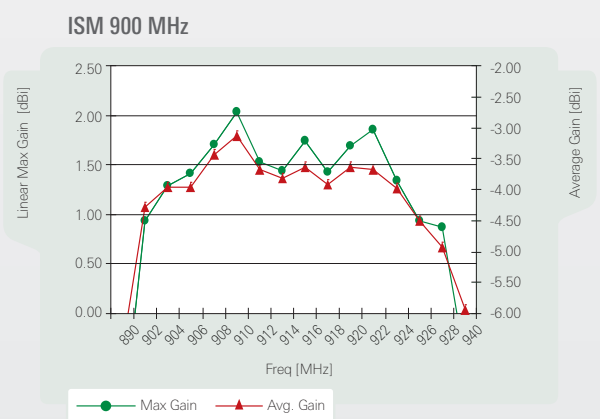
Measured on the 100 x 37mm test board

Typical Return Loss S11/ impedance









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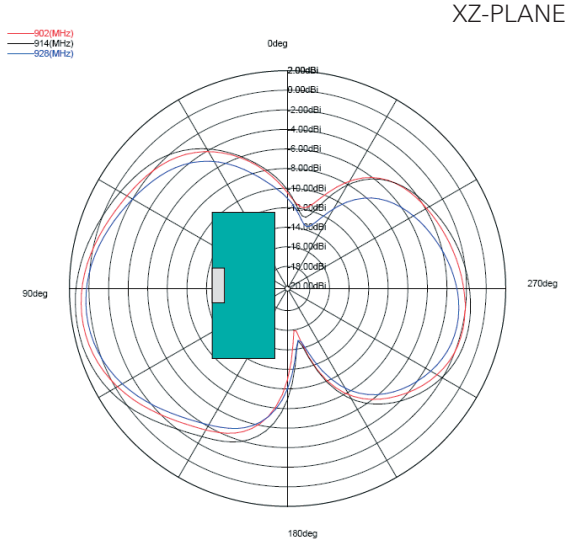
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ISM 900 MHz Ceramic Antenna

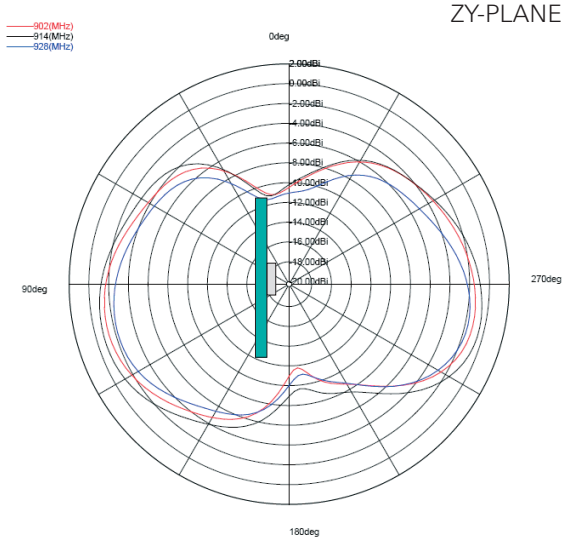
Ground cleared under antenna, clearance area 10.80 mm x 8.25 mm. Pulse Part Number: W3012

2,4 GHz Typical Free space Radiation Patterns

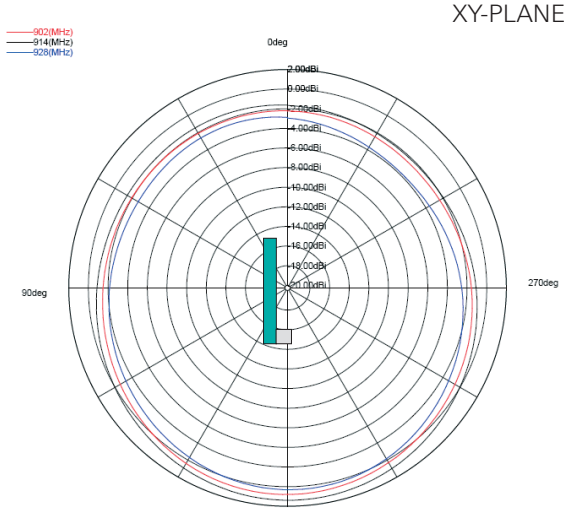
XZ-PLANE

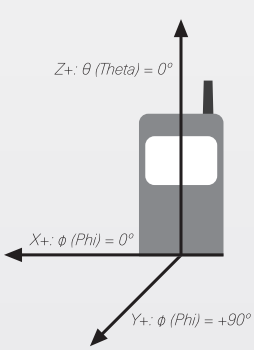


ZY-PLANE



XY-PLANE





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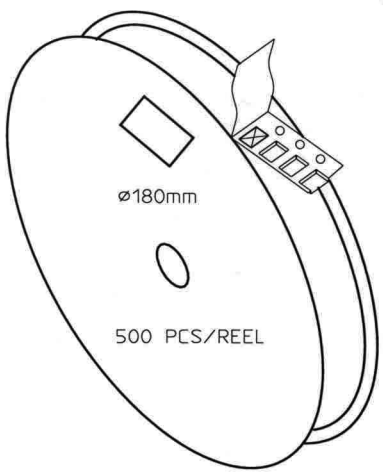
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ISM 900 MHz Ceramic Antenna

Ground cleared under antenna, clearance area 10.80 mm x 8.25 mm. Pulse Part Number: W3012

Packing form

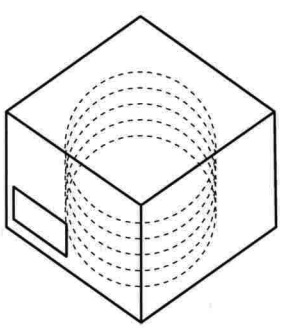


CARRIER TAPE H85-00158
width=24,00 depth=4.15
COVER TAPE H85-00159
width=21.20

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 (182x182x125)	1 pcs
- LABEL	1 pcs/BOX
REEL H85-00160 (D180,W28)	4 pcs
- REEL LABEL	1 pcs/REEL

MATERIAL

HANDLINGS

RATIO

DRWN	160107 PeHa	H
DGNER		G
CHKD		F
APPRD		E
APPRD BY		D
		C
		B
		A
VERSION		MOD/DATE/NAME

PRODUCT H90-0Y800-F01P01

DENOMINATION PACKING FORM

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