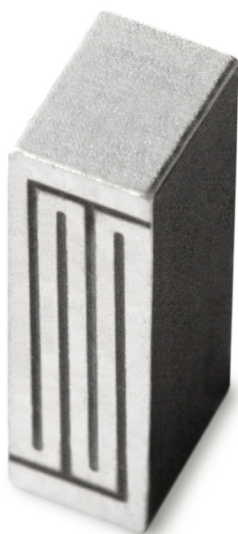


ISM 900 MHz Ceramic Antenna

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

Pulse Finland Oy

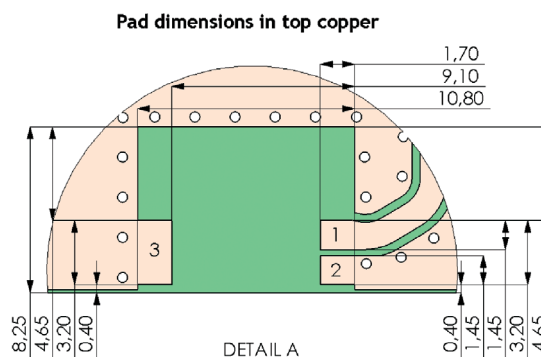
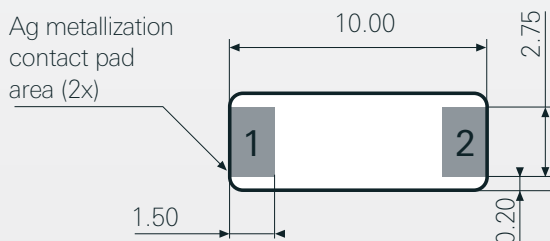
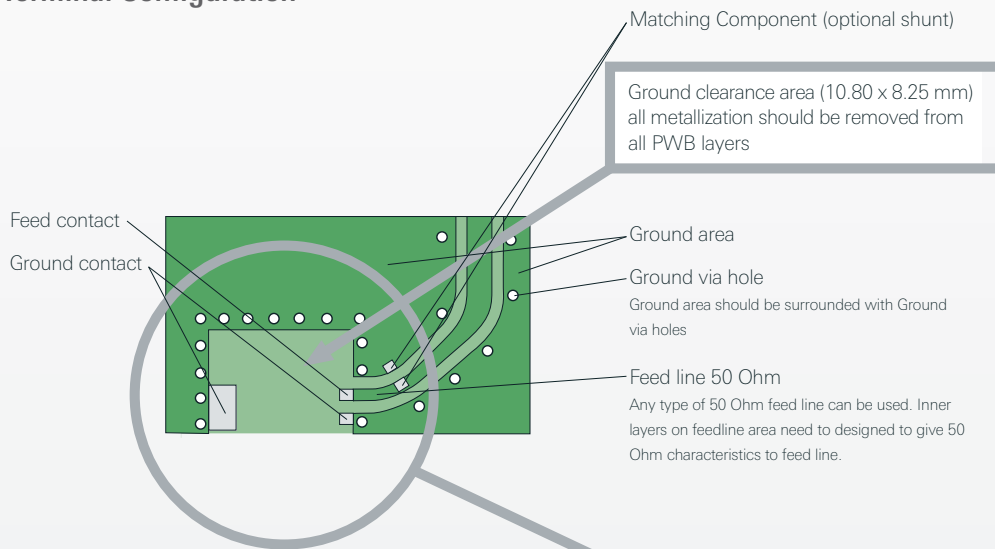
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90440 Kempele, Finland
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Fax: +358 207 935 501
www.pulseeng.com/antennas



ISM 900 MHz Ceramic Antenna

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

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

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

ISM 900 MHz

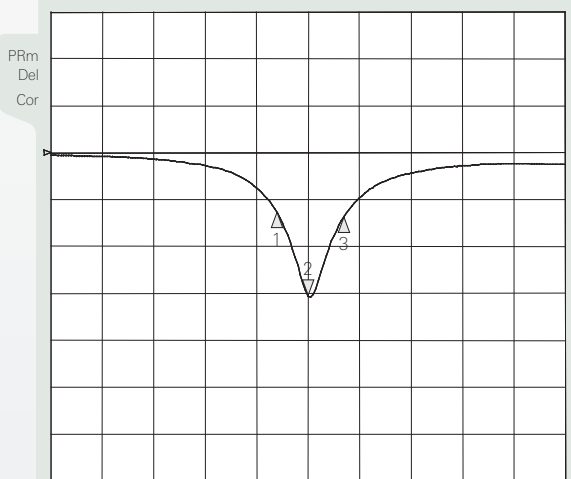
14 Jun 2007 09:55:59

CH1Markers

1. -6.4268 dB 902.000 MHz
2. -15.257 dB 914.000 MHz
3. -6.8206 dB 928.000 MHz

CH1 S11 LOG

5 dB/REF 0 dB



CENTER 914.000 000 MHz

SPAN 200.000 000 MHz

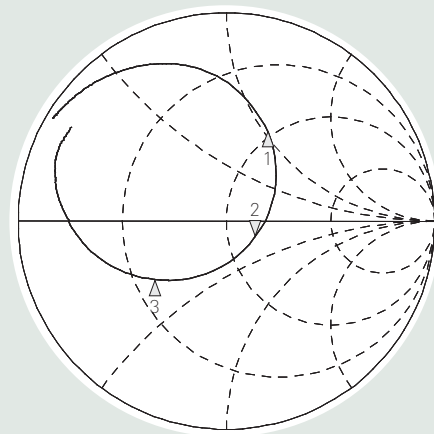
ISM 900 MHz

14 Jun 2007 09:57:22

CH1 S11&M 1 U FS

- | | | |
|-----------------|-----------|-------------|
| 1. 47.711 Ω | 51.703 Ω | 902.000 MHz |
| 2. 65.233 Ω | -10.121 Ω | 17.205 pF |
| 914.000 000 MHz | | |
| 3. 21.232 Ω | -14.895 Ω | 928.000 MHz |

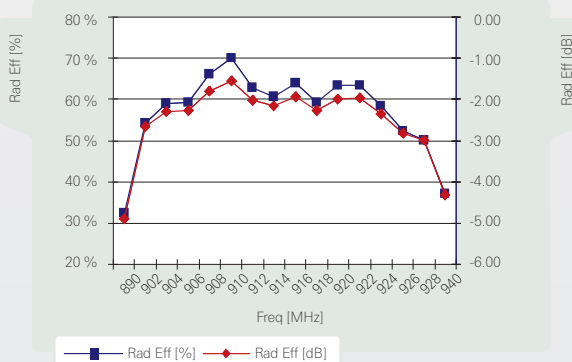
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CENTER 914.000 000 MHz

SPAN 200.000 000 MHz

ISM 900 MHz



ISM 900 MHz



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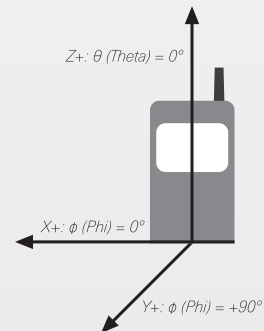
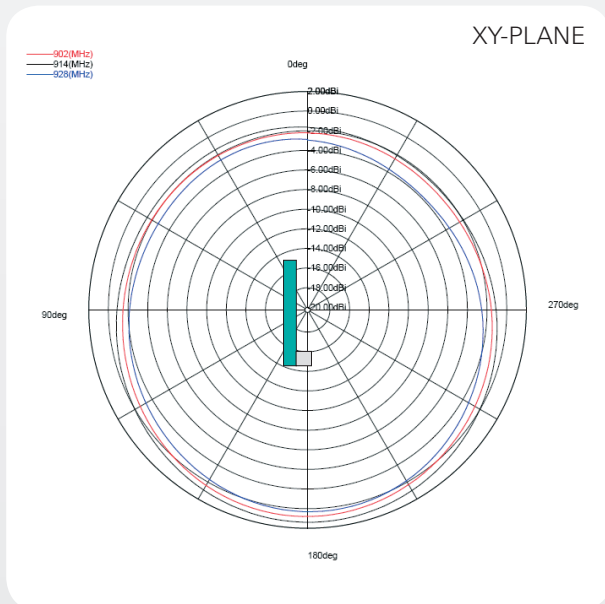
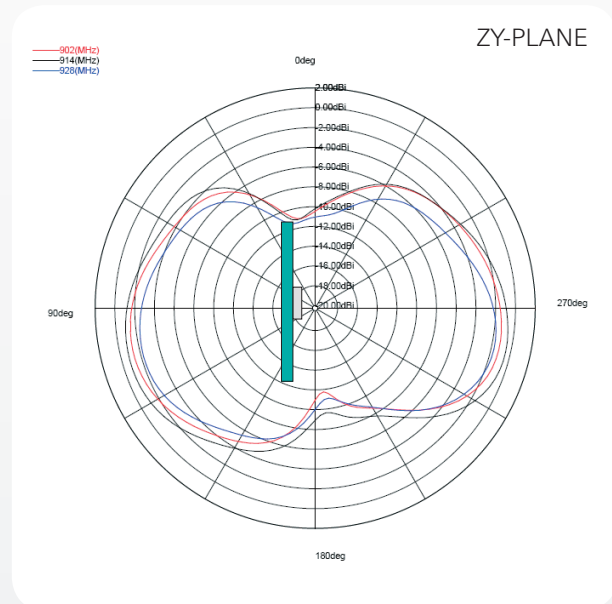
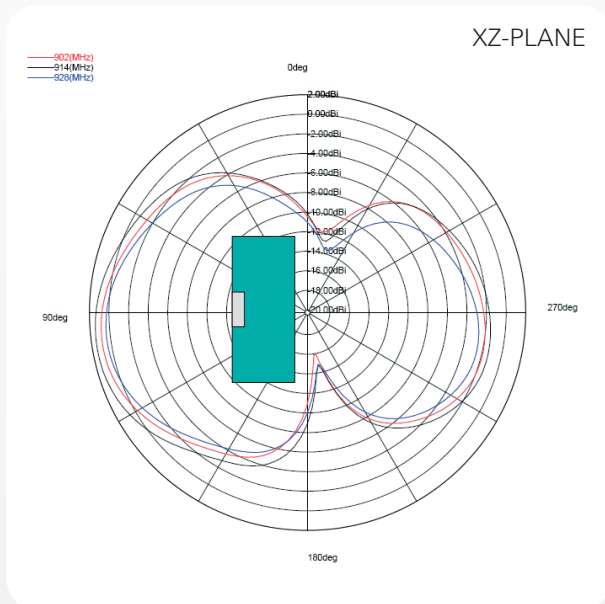


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ISM 900 MHz Ceramic Antenna

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



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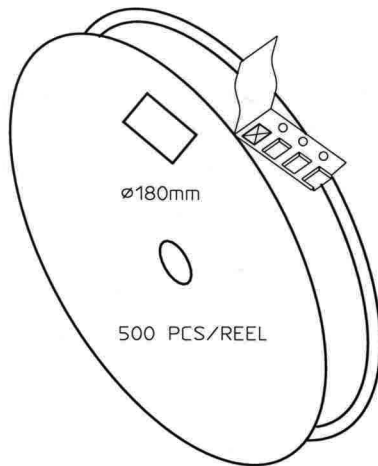


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ISM 900 MHz Ceramic Antenna

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

Packing form

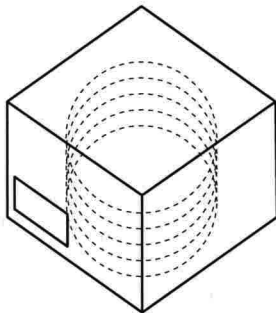


CARRIER TAPE H85-00158
width=24,00 depth=4.15
COVER TAPE H85-00159
width=21.20

LENGTH OF TAPE:

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

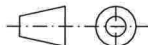
Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



BOX H85-00128 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	
			APPRD BY		D	
PRODUCT			H90-OY800-F01P01		C	
DENOMINATION					B	
					A	
				PACKING FORM		

Pulse Finland Oy

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Pulse:

W3012