Ground cleared under antenna, clearance area 8.50 x 40.00 mm. Pulse Part Number: W3126



Features

- Plastic supported helical antenna
- Size (helix): Length 35.35mm, ø 7mm
- Low weight (1.8g)
- Mounting on top of the PWB
- -Through hole mechanical support pegs
- Feed contact by soldering via PWB hole
- -Tray packing
- RoHS Compliant Product

Applications

- Remote controls, toys etc.
- 315MHz ISM Band Systems

Electrical specifications @ +25 °C

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

ISM 315MHz

Typical performance (test board size 100x40 mm, PWB ground clearance area 8.50 x40.00 mm), tuning and matching circuit: tuning 33nH series, matching 10nH shunt for Pulse standard evaluation board.

Frequency Range	Max Gain	Return loss	Impedance	Operating
[MHz]	[dBi]	min. [dB]	[Ω]	Temperature [°C]
315	-5	-10	50	-40 to +85

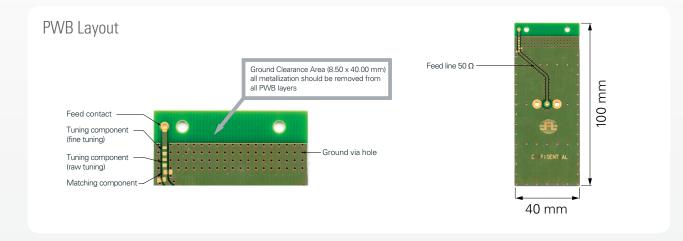
Pulse Finland Oy Takatie 6 90440 Kempele, Finland Tel: +358 207 935 500 Fax: +358 207 935 501 www.pulseeng.com/antennas



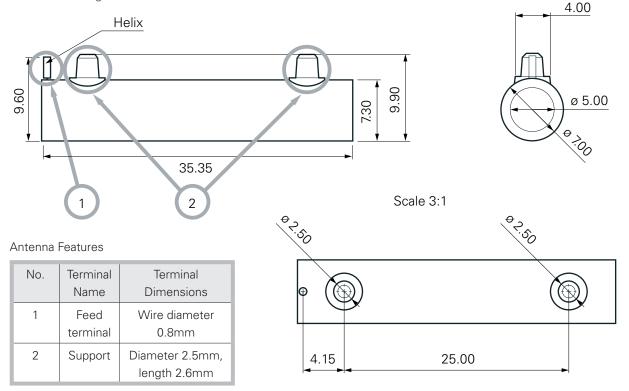
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Terminal Configuration



Terminal Configuration and Antenna Dimensions



Matching circuit needs to placed on PCB close to antenna feed terminal. Matching component values depend on device construction; size, surrounding mechanics, materials etc..

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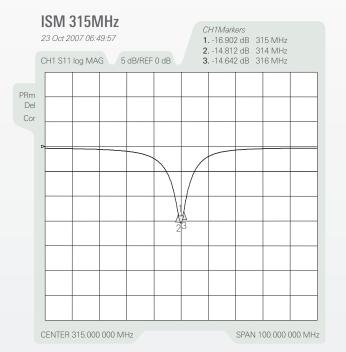
Ground cleared under antenna, clearance area 8.50 x 40.00 mm. Pulse Part Number: W3126

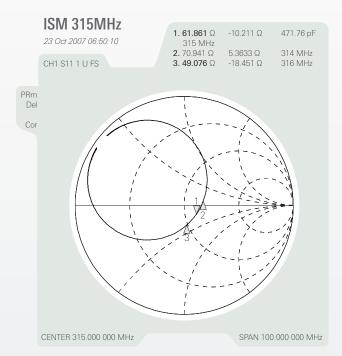
Typical Electrical Characteristics (T=25 °C)

Typical Return Loss S11/ impedance,

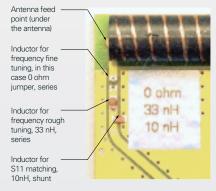
Measured on the 100x40mm test board with tuning and matching circuit







Matching Circuit Details



Note: Exact matching and tuning components value depend on application, board size, cover etc.

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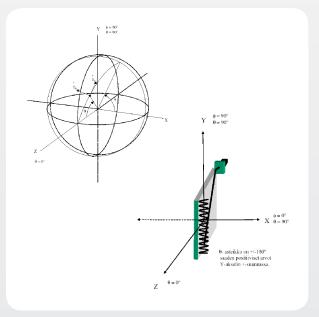
Ground cleared under antenna, clearance area 8.50 x 40.00 mm. Pulse Part Number: W3126

Typical Free space Radiation Patterns











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