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 $[\Omega]$	Operating
[MHz]	[dBi]	min. [dB]		Temperature [°C]
315	-5	-10	50	-40 to +85

Takatie 6

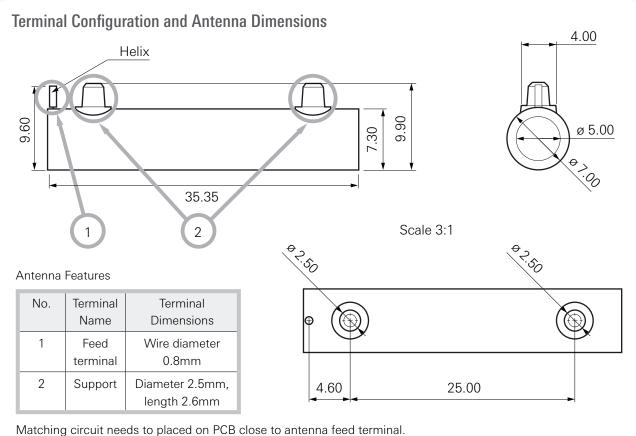
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## **Terminal Configuration**





Matching component values depend on device construction; size, surrounding mechanics, materials etc..

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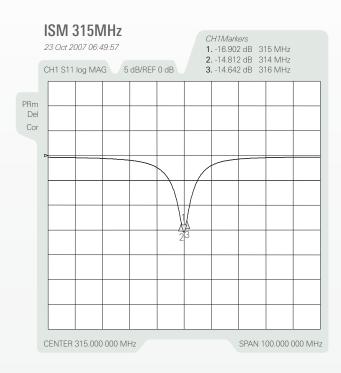
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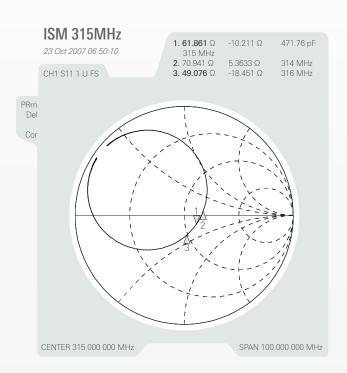
### Typical Electrical Characteristics (T=25 °C)

Typical Return Loss S11/impedance,

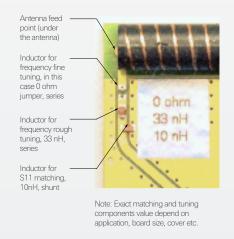
Measured on the 100x40mm test board with tuning and matching circuit







### **Matching Circuit Details**





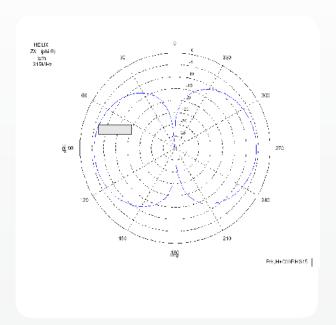
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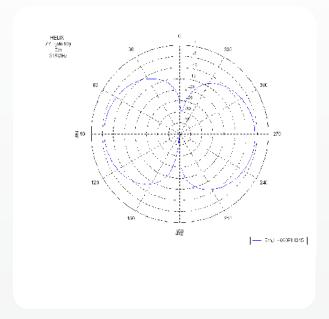
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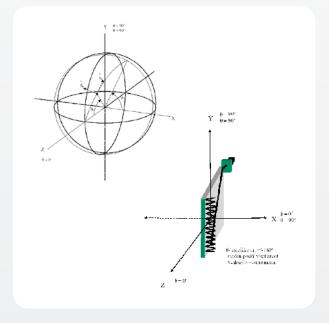
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## Typical Free space Radiation Patterns









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