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[Pulse Electronics Corporation](#)
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sales@integrated-circuit.com

2.4 GHz Helical WiFi SMD Antenna

Ground cleared under antenna, clearance area 7.50 x 5.50 mm. Pulse Part Number: W3108



Features

- Low profile (5.5 mm)
- Compact size W x L x H (5.0 x 2.5 x 5.5 mm)
- Low weight (140 mg)
- Lead Free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- IEEE 802.11b/g
- Bluetooth
- WiFi
- 2.4 GHz WLAN
- 2.4 GHz ISM Band Systems
- ZigBee IEEE 802.15.4

Engineering samples available

Electrical specifications @ +25 °C

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

2.4 GHz WiFi

Typical performance (testboard size 100 x 40 mm, PWB ground clearance area 7.5 x 5.5 mm)

Values below are measured inside typical mobile phone chassis including all mechanics

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2400 – 2483.5	1.5	50 / -3	-8	50	-40 to +85

W3108 Datasheet version 2.1. 2.4 GHz Helical WiFi SMD Antenna. (11/07).

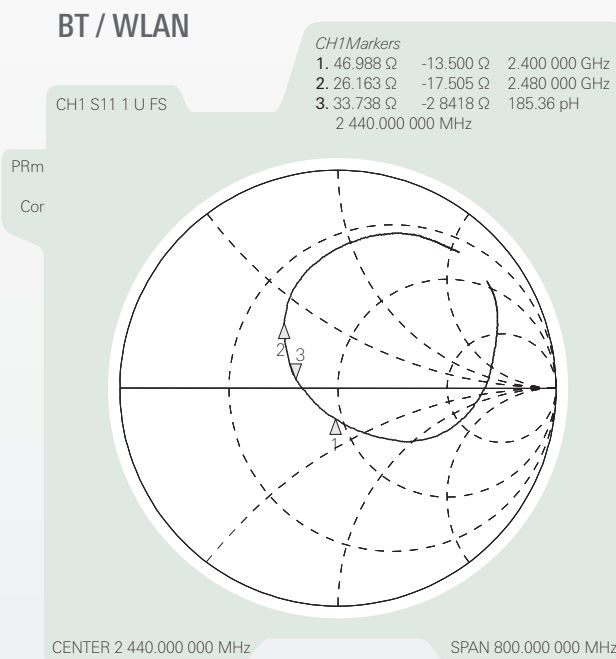
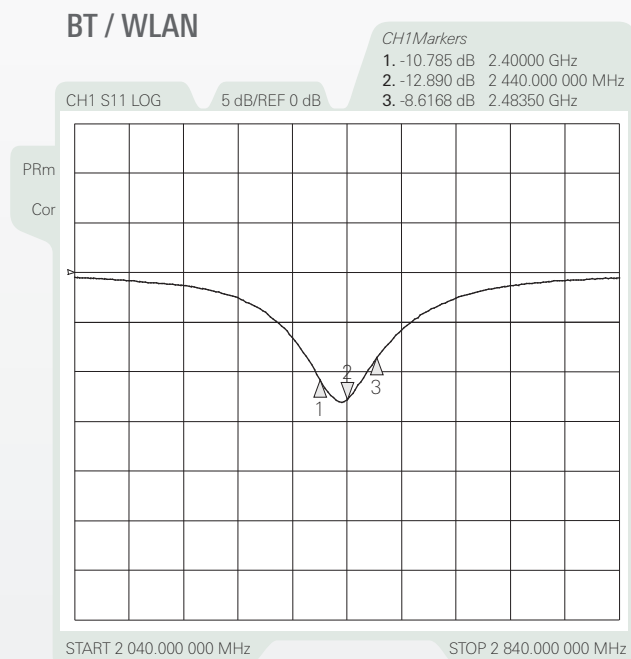
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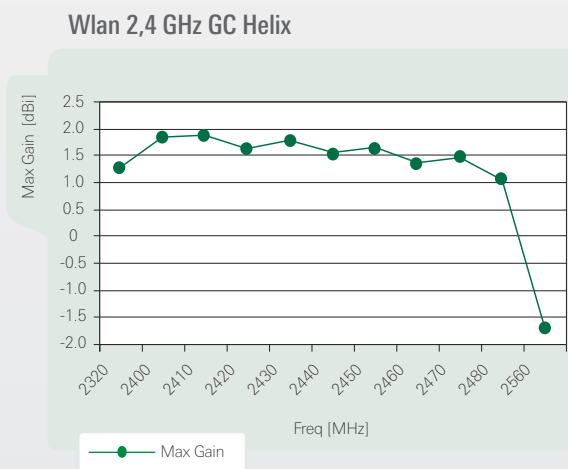
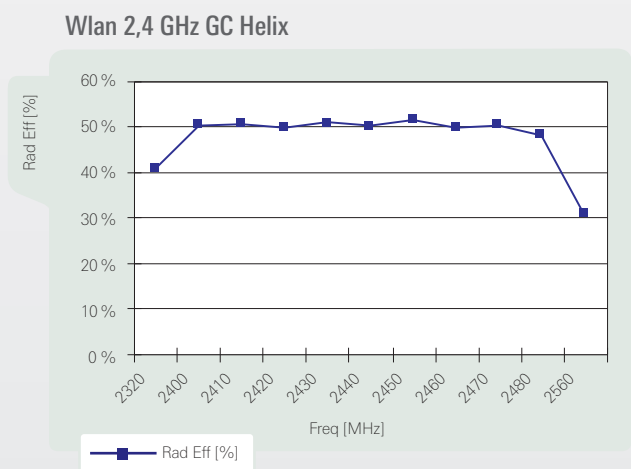
Typical Electrical Characteristics (T=25 °C)

Measured on basic chassis including PWB, display, battery and plastic covers. Chassis size abt. 17 x 40 x 100 mm.

Typical Return Loss S11/ impedance



Free space efficiency and maximum gain, PWB ground clearance area 6.00 x 11.00 mm



Pulse Finland Oy

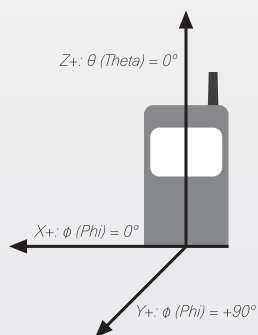
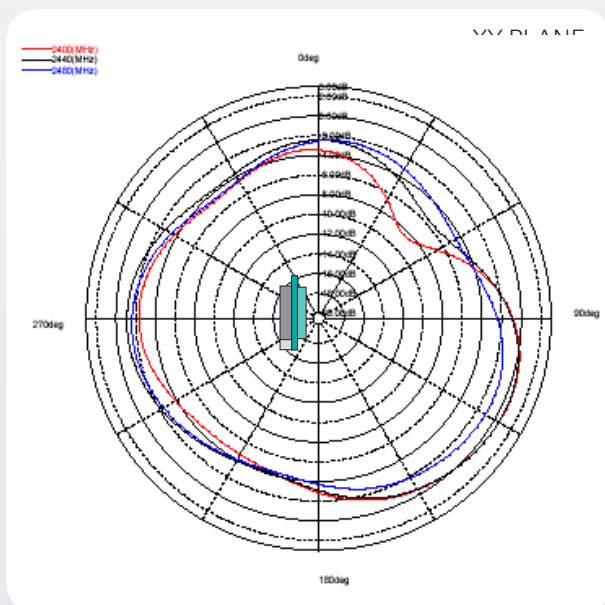
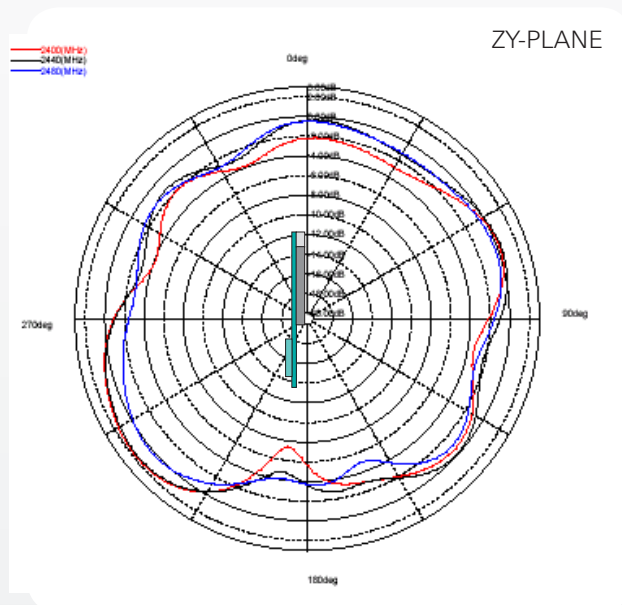
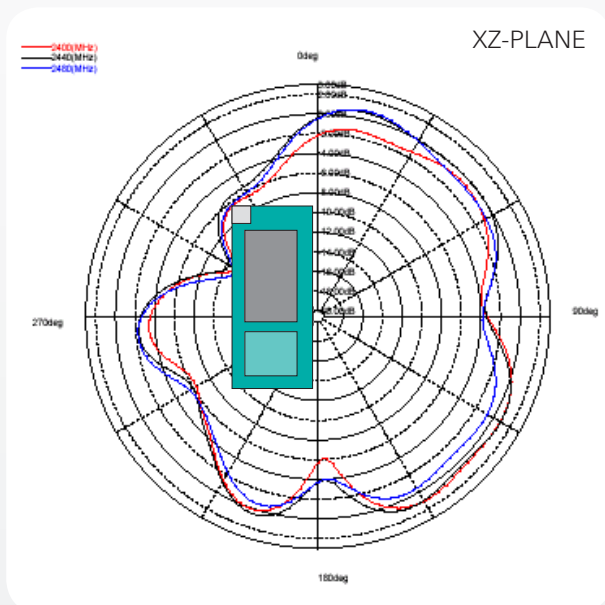
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Typical Free space Radiation Patterns



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Recommended pad layout and guard distances

Feed line should be designed to match 50 Ω characteristic impedance, depending on PWB material and thickness.

