

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Ground cleared under antenna 11.60 x 6.00 mm. Pulse Part Number: W3006



Features

- Omnidirectional radiation
- Low profile
- Compact size WxLxH (10.0 x 3.2 x 1.5 mm)
- Low weight (240 mg)
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product
- Single feed point

Applications

- IEEE 802.11a/b/g
- 5 GHz WLAN
- 2.4 GHz WLAN
- 2.4 GHz ISM Band Systems
- ZigBee IEEE 802.15.4

Electrical specifications @ +25 °C

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

Dualband WLAN

Typical performance (testboard size 80×37 mm, PWB ground clearance area 11.60×6.00 mm) 1.5nH shunt inductor used for impedance matching.

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2400–2483.5	3.2 (peak) 2.7 (band edges)	70 / -1.55 (peak) 65 / -1.85 (band edges)	-8	50	-40 to +85
5150–5850	4.2 (peak) 3.0 (band edges)	80 / -0.95 (peak) 70 / -1.55 (band edges)	-10	50	-40 to +85

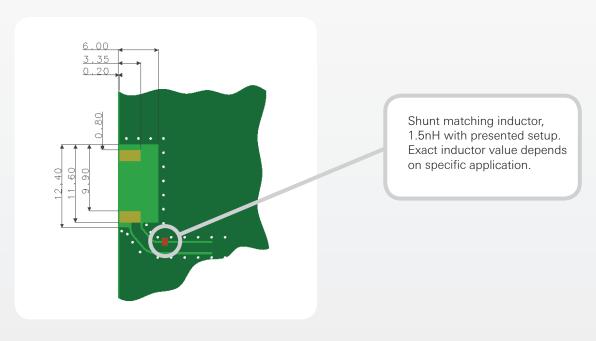
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Recommended test board layout for electrical characteristic measurement, test board outline size 80 x 37mm



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



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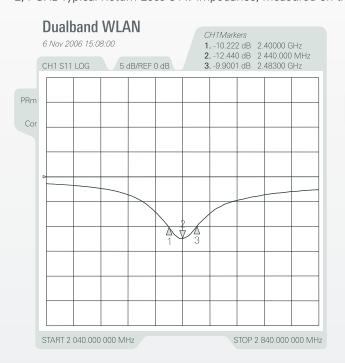
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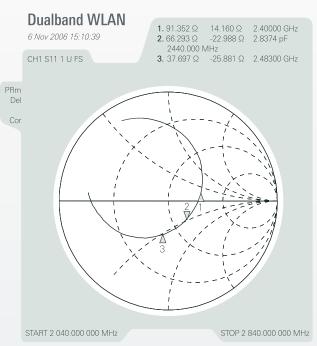


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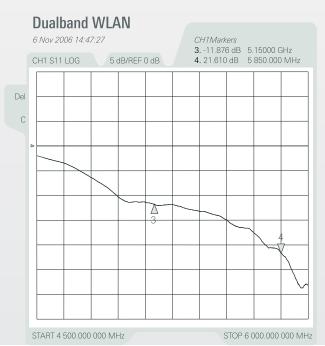
Typical Electrical Characteristics (T=25 °C)

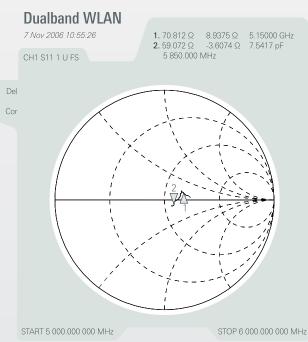
2,4 GHz Typical Return Loss S11/ impedance, measured on the test board





5GHz Typical Return Loss S11/ impedance, measured on the test board





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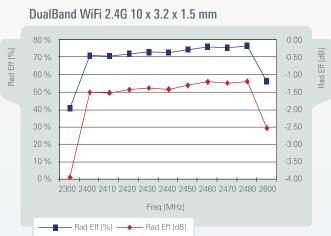
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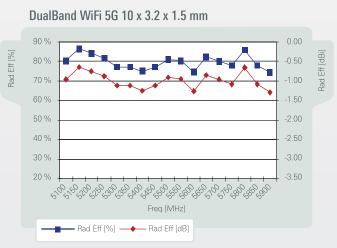
2,4 GHz free space efficiency and maximum gain





5 GHz free space efficiency and maximum gain





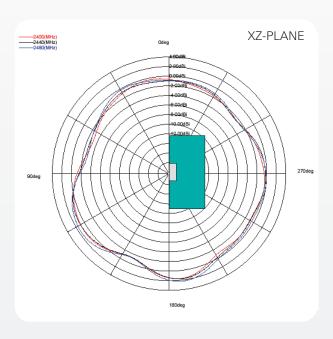
Takatie 6

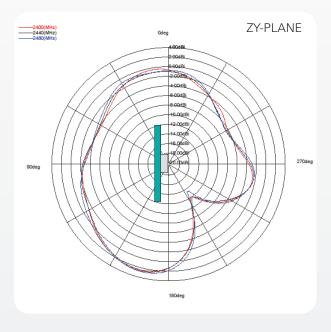
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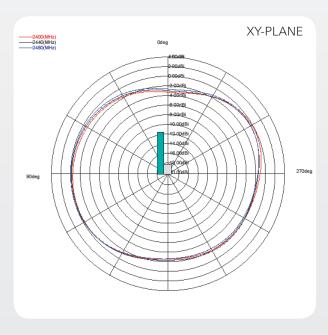


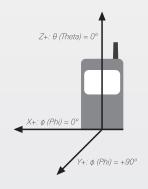
Ground cleared under antenna 11.60 x 6.00 mm. Pulse Part Number: W3006

2,4 GHz Typical Free space Radiation Patterns









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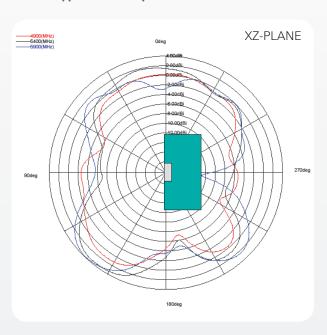
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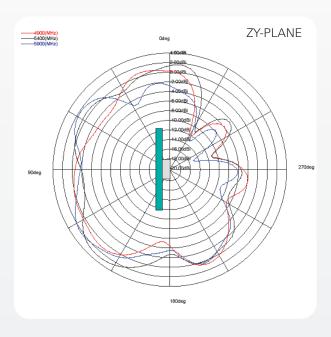
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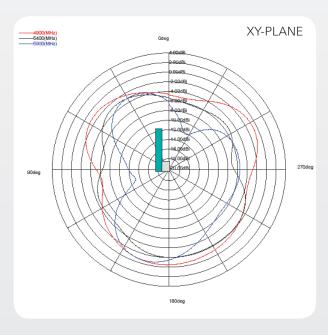


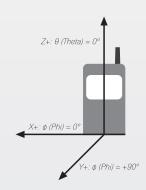
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5 GHz Typical Free space Radiation Patterns









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