

2.1GHz Rx Diversity Ceramic Antenna

Pulse Part Number CW3030



Features

- Omni directional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 2 mm)
- Low weight (310 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- WCDMA
- 2.11 – 2.17GHz

Electrical specifications @ +25 °C

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

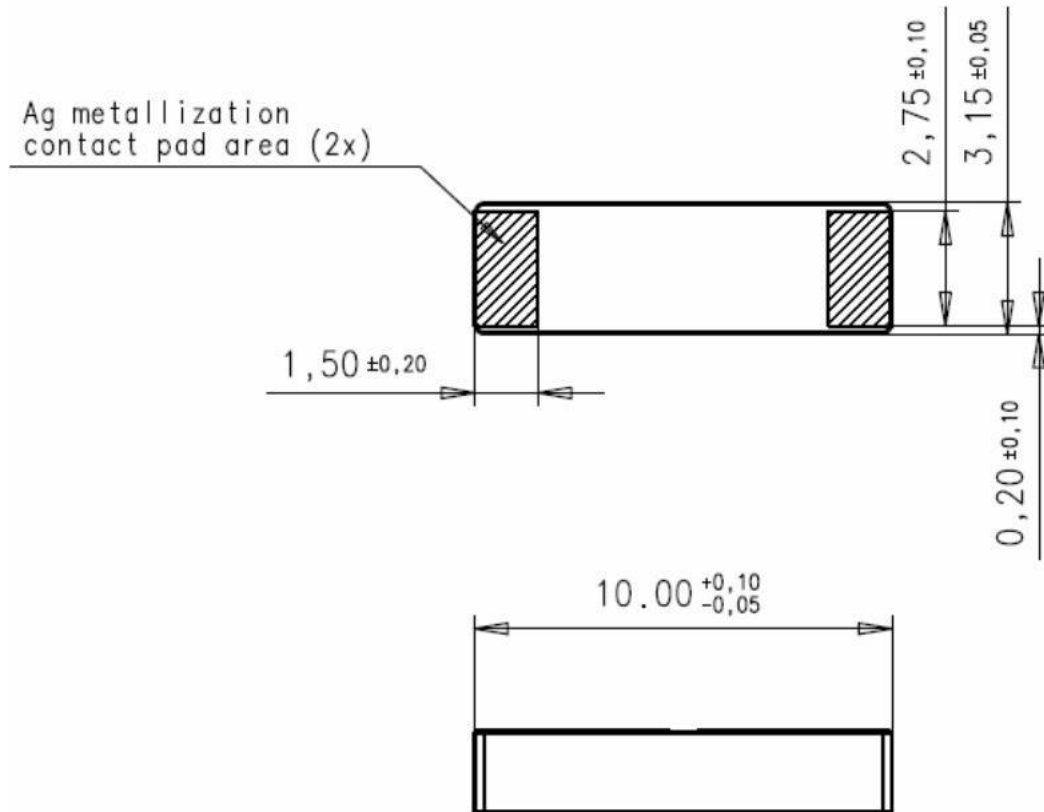
Typical performance (testboard size 80x37 mm, PWB ground clearance area 10.60 x 6.25 mm)

Frequency Range [MHz]	Linear Max Gain [dBi]	Return loss min. [dB]	Efficiency [%]/[dB]	Impedance [Ω]	Operating Temperature [$^{\circ}$ C]
2110 – 2170	2 (peak) 1.5 (band edges)	-10	80 / -1(peak) 70 / -1.55(band edges)	50	-40 to +85

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Terminal Configuration and antenna dimensions



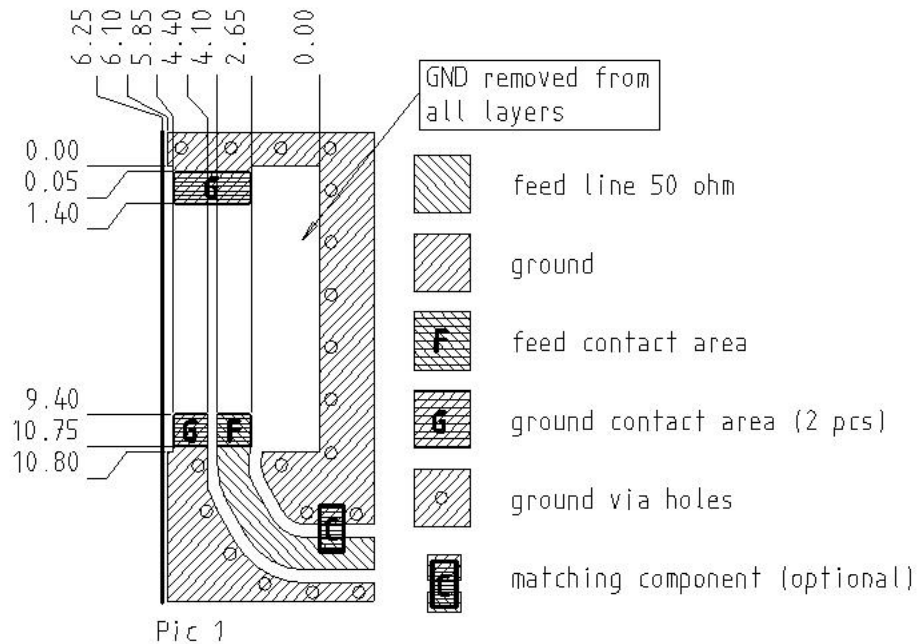
No.	Terminal Name	Terminal Dimensions
1	Feed / GND	1.5 x 2.75 mm
2	Feed / GND	1.5 x 2.75 mm

Antenna is symmetrical. Either of terminals 1 or 2 can be Feed / GND

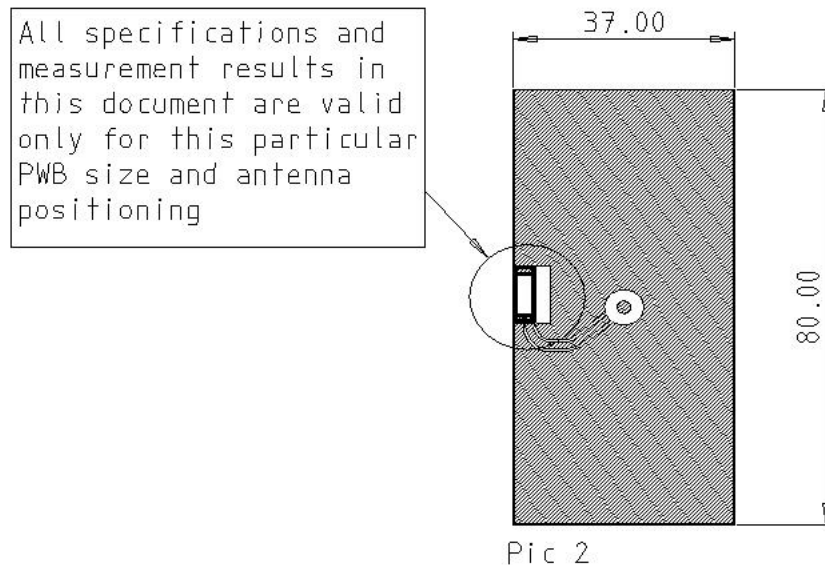
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Recommended test board layout



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



Matching and tuning component values depend on application and surrounding mechanics /materials

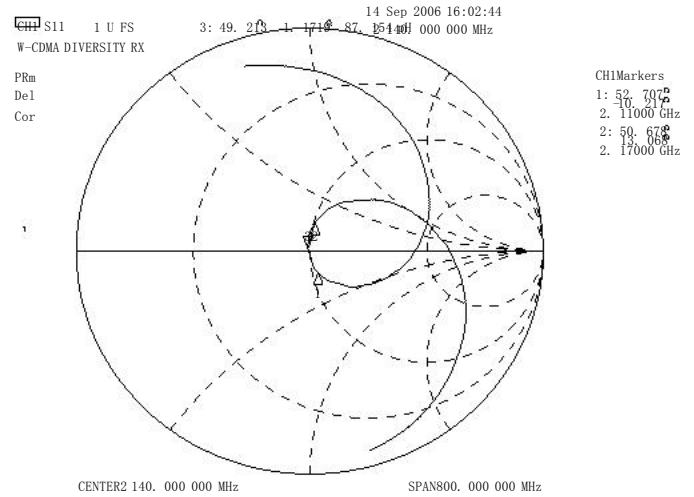
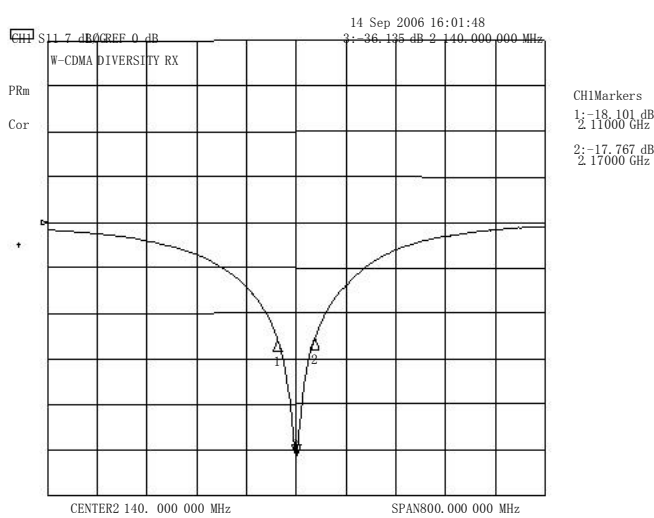
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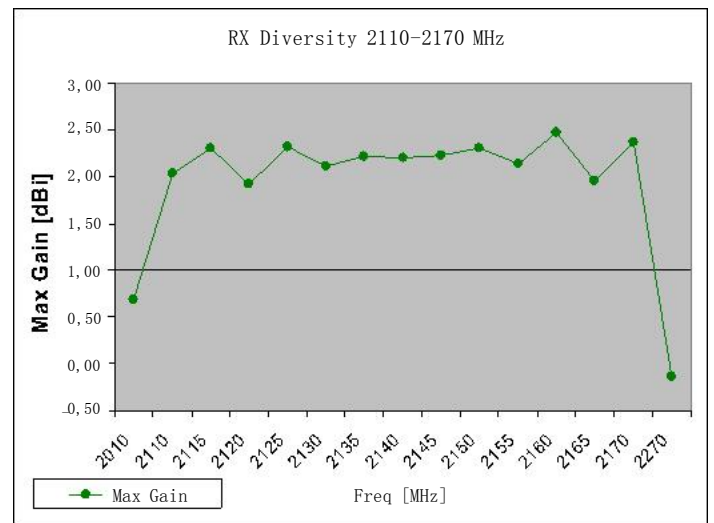
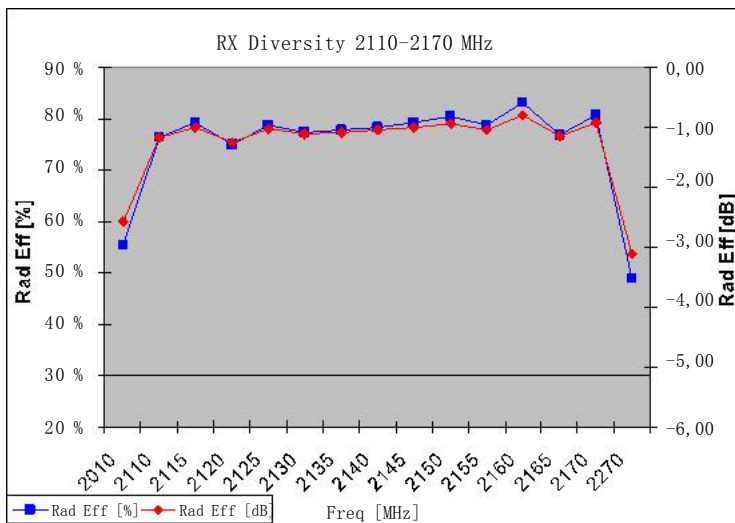
Typical Electrical Characteristics (T=25 °C)

Measured on the 80 x 37mm test board without matching circuit

Typical Return Loss S11/ impedance



Free space efficiency and maximum gain



Contact: mobiledeviceantenna.sales@pulseelectronics.com

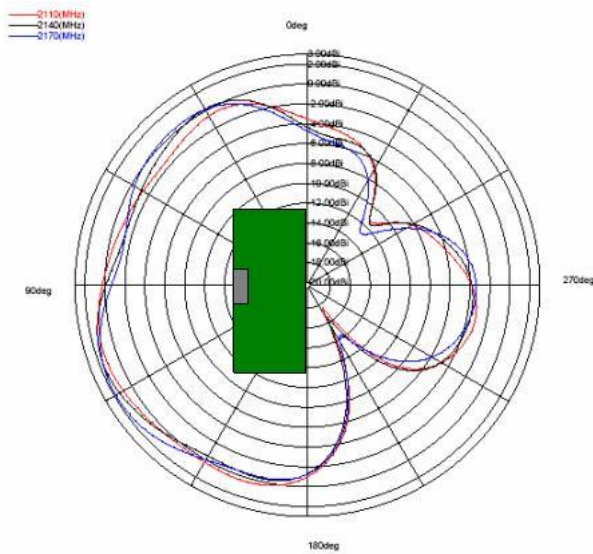


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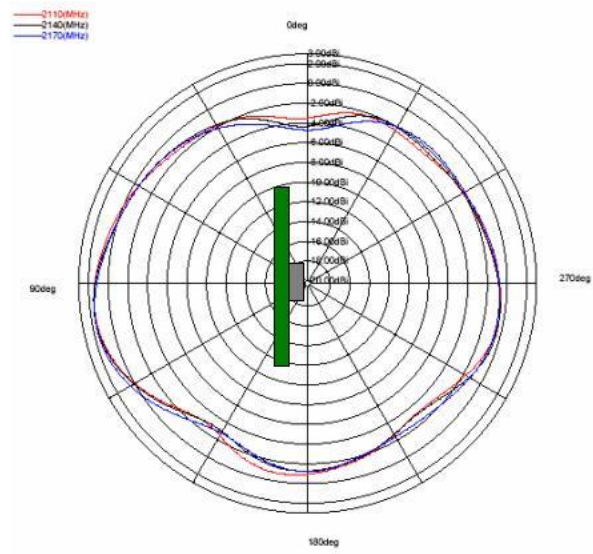
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Typical Free Space Radiation Patterns

XZ-PLANE



ZY-PLANE



XY-PLANE

