1.92–2.17 GHz WCDMA Ceramic Antenna

Pulse Part Number CW3040

Features

- 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

- W-CDMA
- 1.92–2.17 GHz

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, antenna position side center, PWB ground clearance area 10.6 x 8.25 mm)

Frequency Range [MHz]	Linear Max Gain [dBic]	Return loss min. [dB]	Efficiency [%]/[dB]	Impedance [Ω]	Operating Temperature [° C]
1920 – 2170	2.3(peak) 1.5(band edges)	-10	80 / -1(peak) 70/-1.55(band edges)	50	-40 to +85

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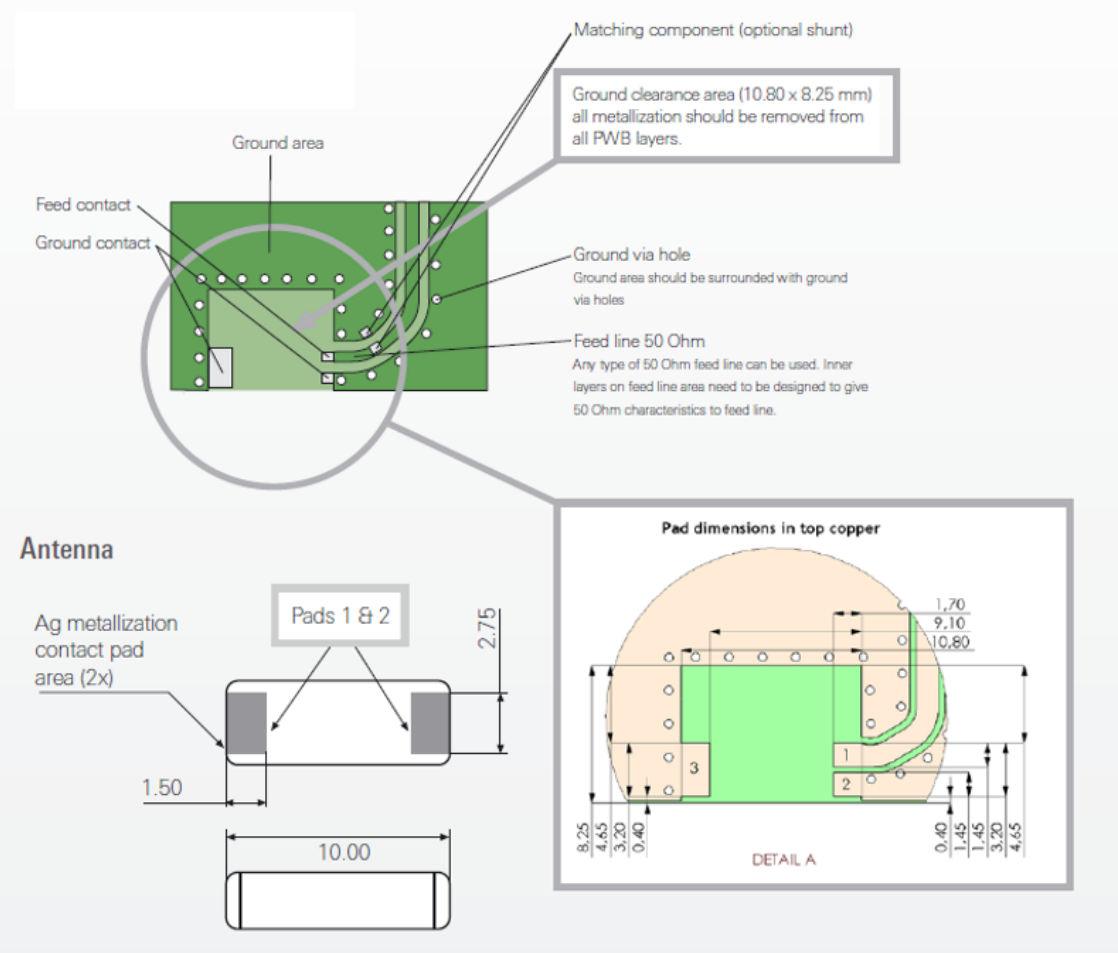
Terminal Configuration and antenna dimensions



Antenna features

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		

PWB features

No.	Terminal Name	Terminal Dimensions
1	Feed	1.7 x 1.45 mm
2	GND	1.7 x 1.45 mm
3	GND	1.7 x 3.20 mm

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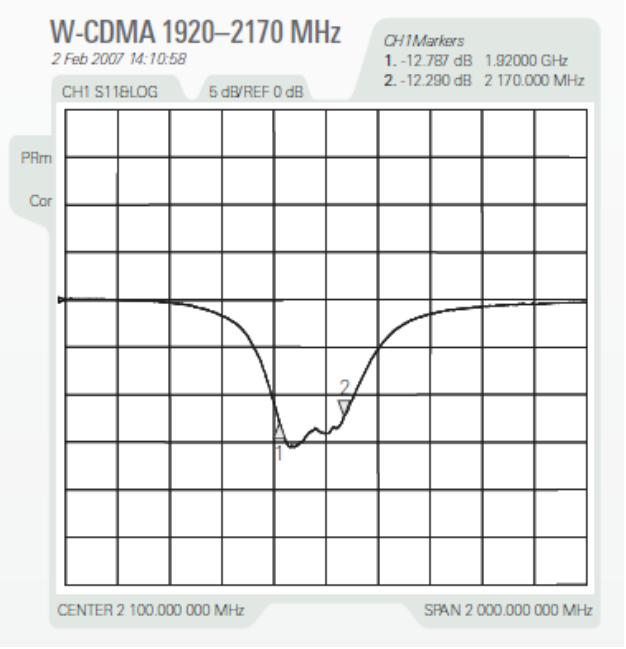
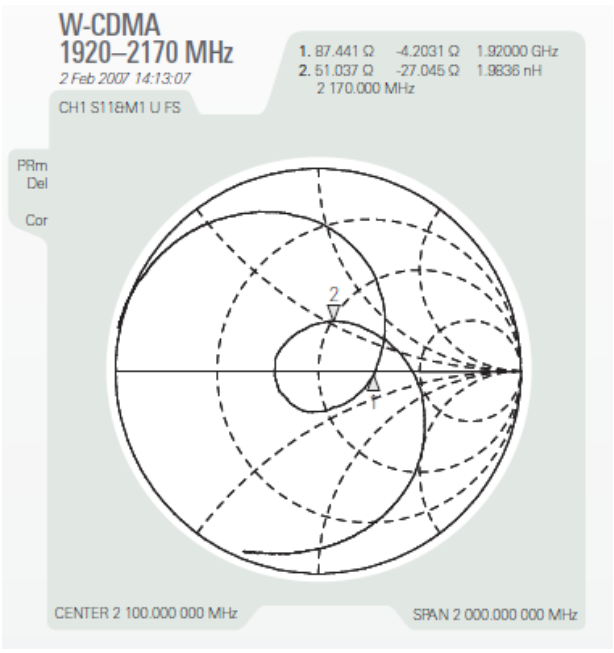
Typical Electrical Characteristics (T=25 ° C)

Measured on the 80x37mm test board, Antenna location side center. 2.7pF shunt matching capacitor used

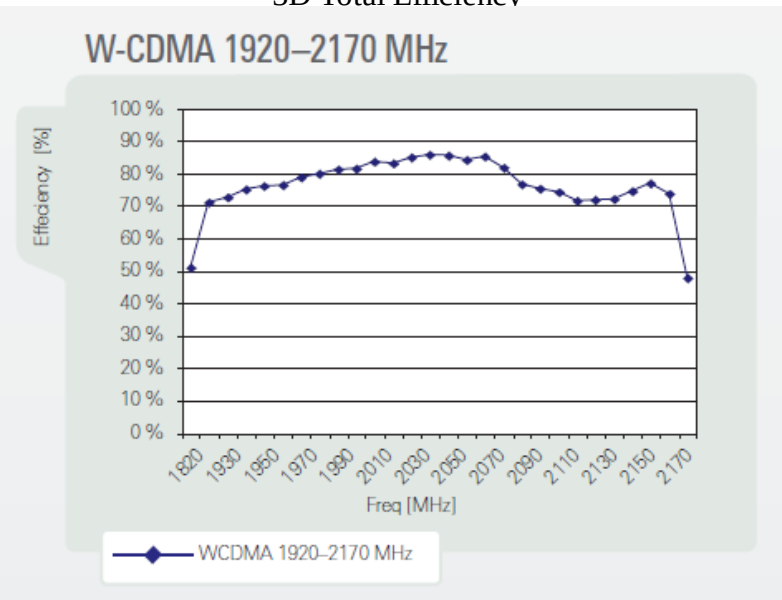
Typical Return Loss and impedance



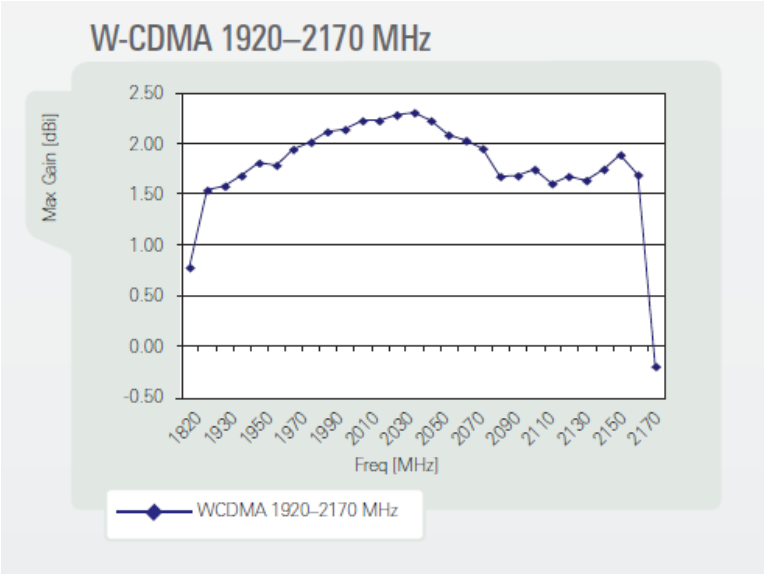


Free space efficiency and maximum gain

3D Total Efficiency



3D Max/Avg. Gain



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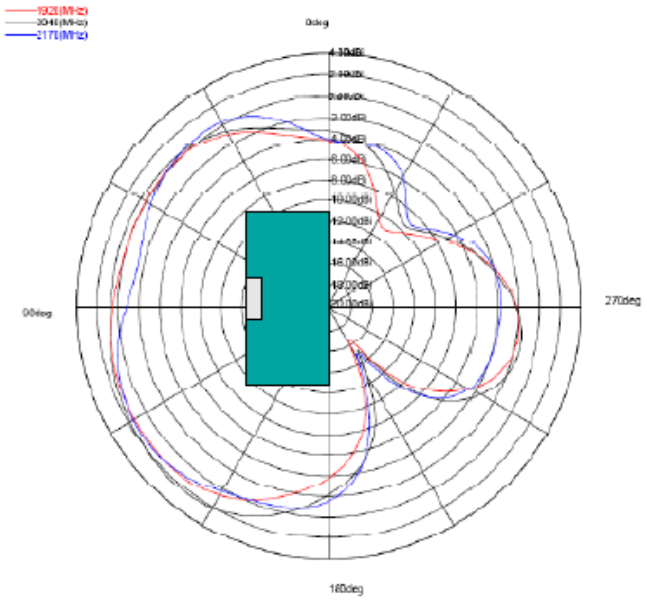
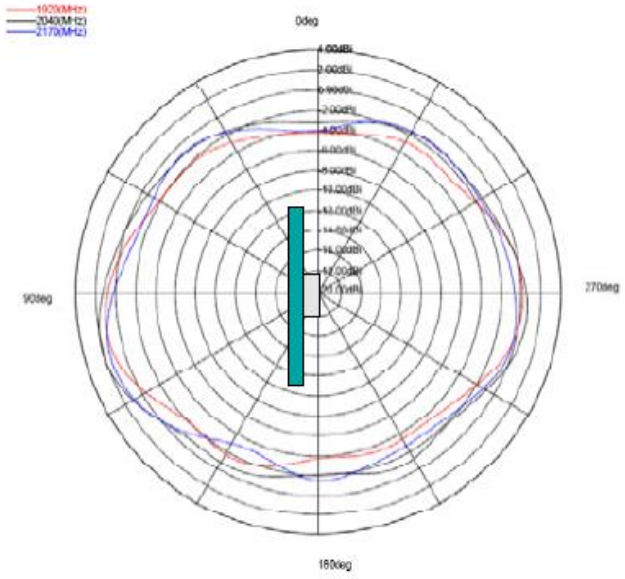
Typical Free space Radiation Patterns

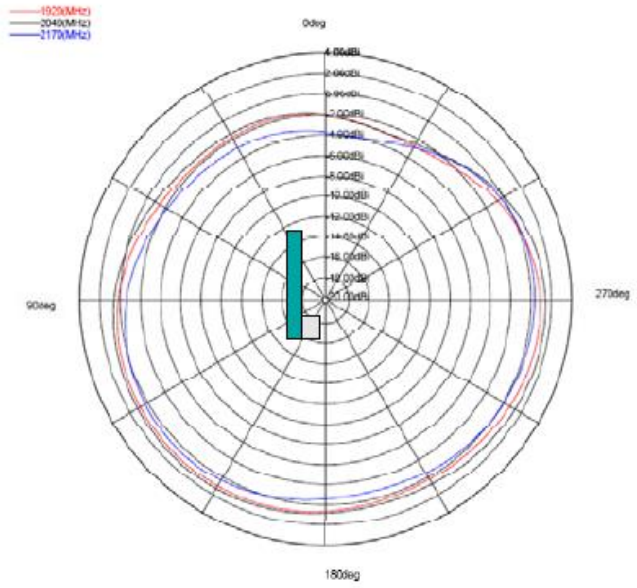
XZ-PLANE

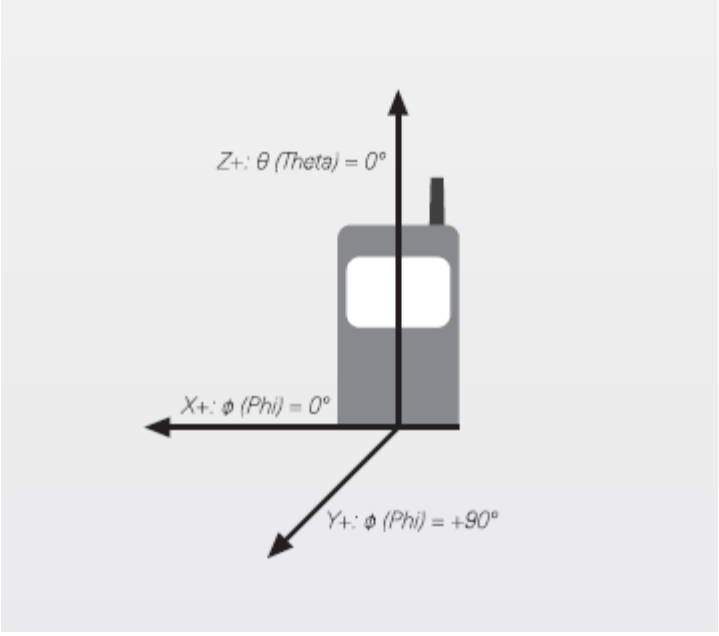


ZY-PLANE



XY-PLANE





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