

1.88-1.93 GHz DECT Ceramic Antenna

Ground cleared under antenna, clearance area 10.80 x 6.25 mm. *Pulse Part Number: W3022*



Features

- Omnidirectional 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

- DECT bands (European + US)
- 1.88-1.93 GHz

Electrical specifications @ +25 °C

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

DECT 1.88-1.93 GHz

Typical performance (testboard size 80 x 37 mm, PWB ground clearance area 10.80 x 6.25 mm)

Frequency Range [MHz]	Linear Max Gain [dBi]	Efficiency [%] / [dB]	Return Loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
1880 – 1930	2.5 (peak) 2 (band edges)	80 / -1 (peak) 70 / -1.55 (band edges)	-12	50	-40 to +85

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Typical Electrical Characteristics (T=25 °C)

Measured on the 80 x 37 mm test board

Typical Return Loss S11/ impedance

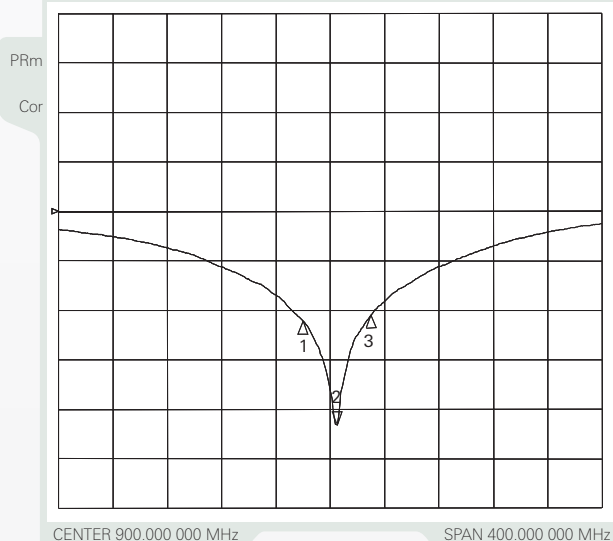
Ceramic Chip Antenna

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CH1Markers

1.	-22.172 dB	1.88000 GHz
2.	-43.163 dB	1.905.000 000 MHz
3.	-20.951 dB	1.93000 GHz

CH1 S11 LOG 10 dB/REF 0 dB



CENTER 900.000 000 MHz

SPAN 400.000 000 MHz

Ceramic Chip Antenna

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CH1Markers

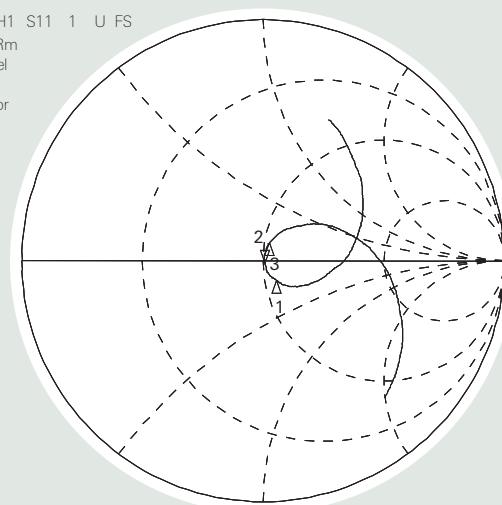
1.	55.0384 Ω	-9.0332 Ω	1.88000 GHz
2.	50.680 Ω	-998.05 m	83.709 pF
3.	52.143 Ω	7.8008 Ω	1.93000 GHz

CH1 S11 1 U FS

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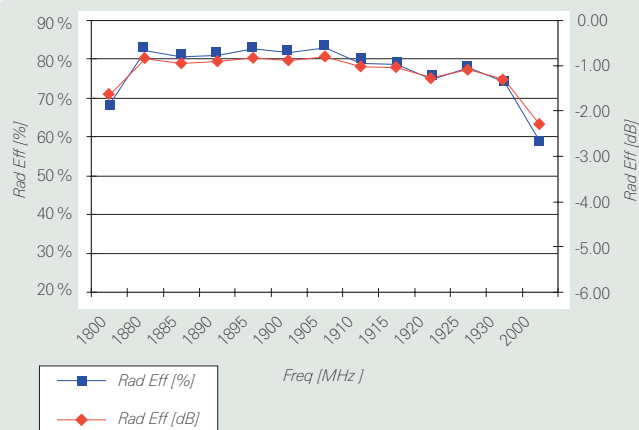


CENTER 1 900.000 000 MHz

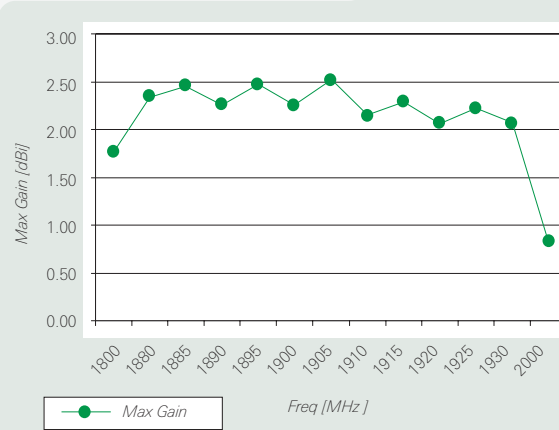
SPAN 400.000 000 MHz

Free space efficiency and maximum gain

DECT 1880-1930 MHz



DECT 1880-1930 MHz



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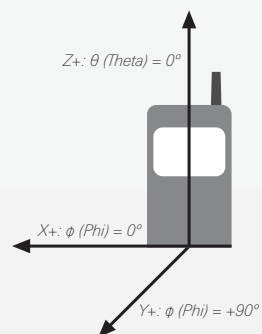
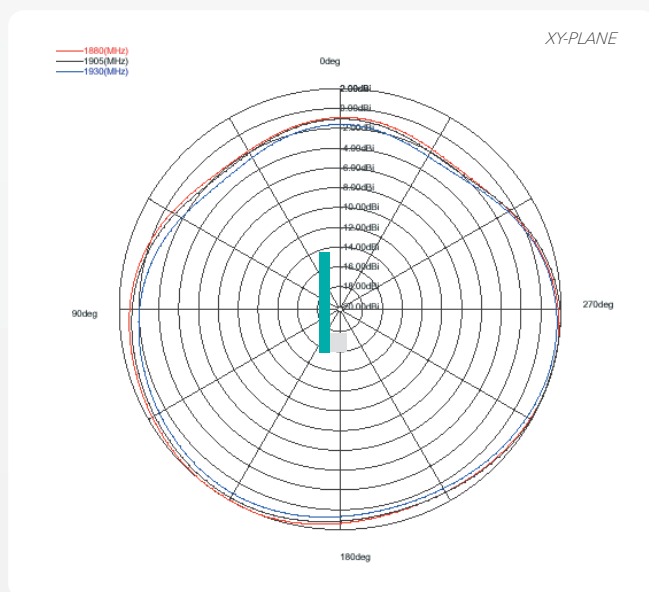
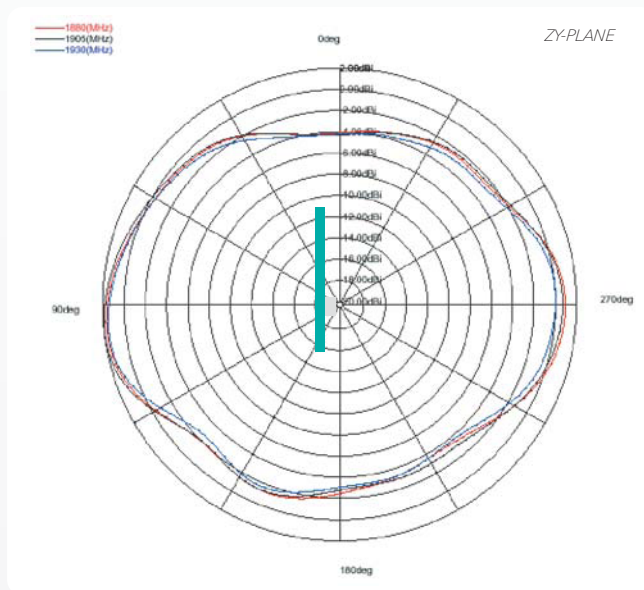
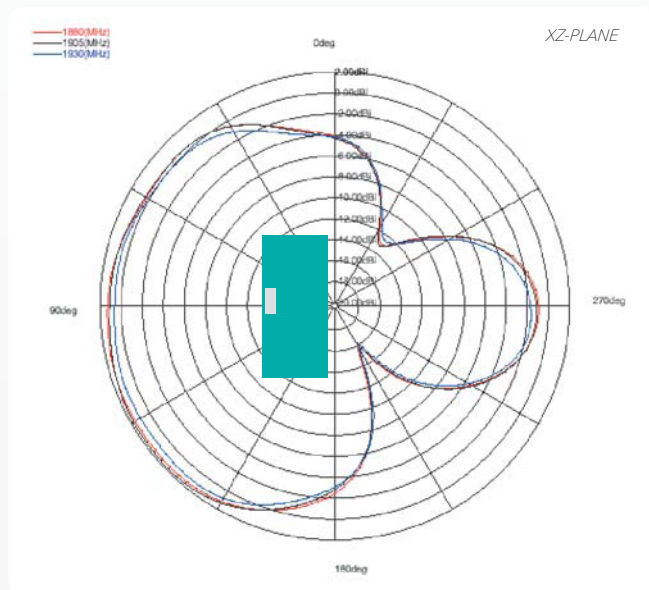
Pulse
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Typical Free Space Radiation Patterns



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