

2.6 GHz DMB-S Ceramic Chip Antenna

Ground cleared under antenna. *Pulse Part Number: W3018*



Features

- Omnidirectional radiation
- Low profile
- Compact size W x L x H (3.2 x 1.6 x 1.1 mm)
- Low weight (33 mg)
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS compliant

Applications

- DMB-S Receivers
- Digital Multimedia Broadcasting
- 2.605–2.655 GHz

Engineering samples available Q3/2006

Electrical specifications @ +25 °C

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

DMB-S 2.605–2.655 GHz

Typical performance (testboard size 80 x 35 mm, PWB ground clearance area 4.0 x 4.25 mm)

Frequency Range [MHz]	Max Gain [dBi]	Efficiency [%] / [dB]	Return Loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2605 – 2655	3 (peak) 2.5 (band edges)	85 / -0.7 (peak) 80 / -1 (band edges)	-10	50	-40 to +85

Pulse Antennas

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Typical Electrical Characteristics (T=25 °C)

Measured on 80 x 35 mm test board, PWB ground clearance area 4.00 x 4.25 mm

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

2.6 GHz DMB-S

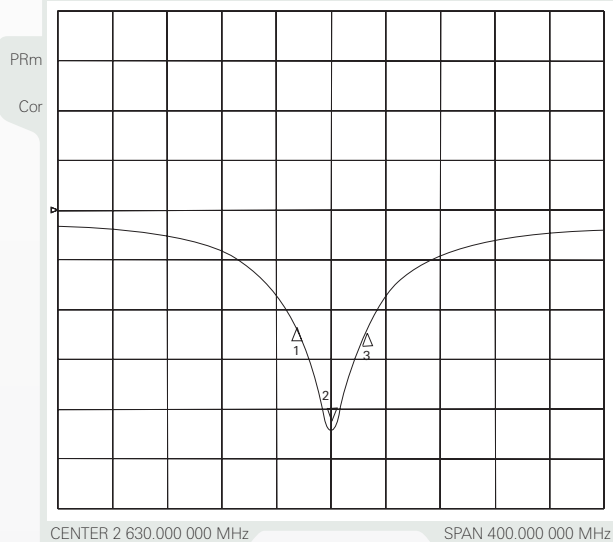
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CH1Markers

- | | | |
|----|------------|-------------------|
| 1. | -11.892 dB | 2.60500 GHz |
| 2. | -22.238 dB | 2.630.000 000 MHz |
| 3. | -12.252 dB | 2.65500 GHz |

CH1 S11&MLOG

5 dB/REF 0 dB



2.6 GHz DMB-S

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CH1Markers

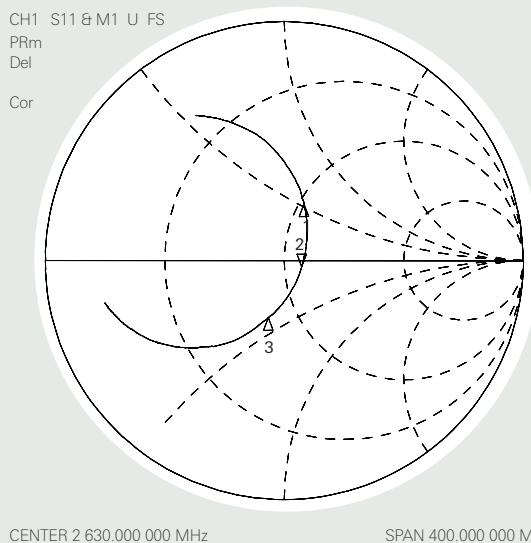
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|----|----------|-------------------|-------------|
| 1. | 52.137 Ω | 26.410 Ω | 2.60500 GHz |
| 2. | 57.775 Ω | -3.0508 Ω | 19.836 pF |
| | | 2.630.000 000 MHz | |
| 3. | 39.245 Ω | -20.090 Ω | 2.65500 GHz |

CH1 S11 & M1 U FS

PRm

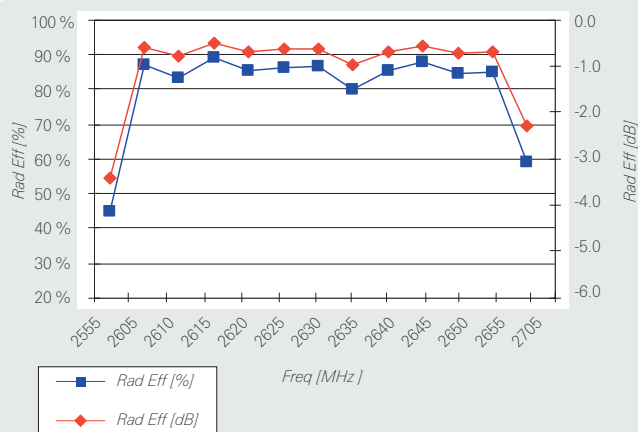
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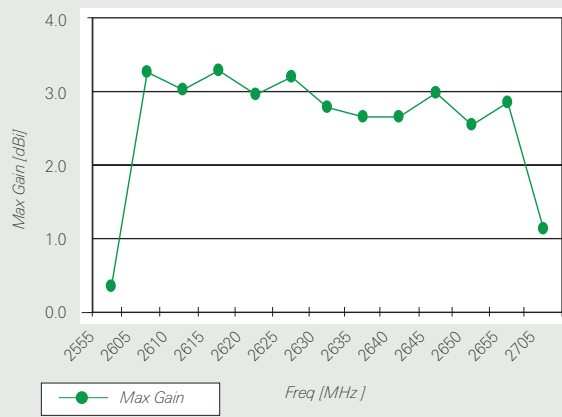


Free space efficiency and maximum gain

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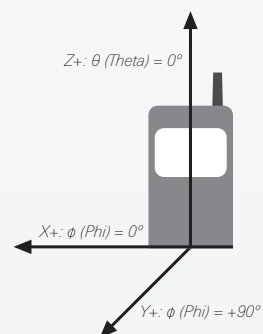
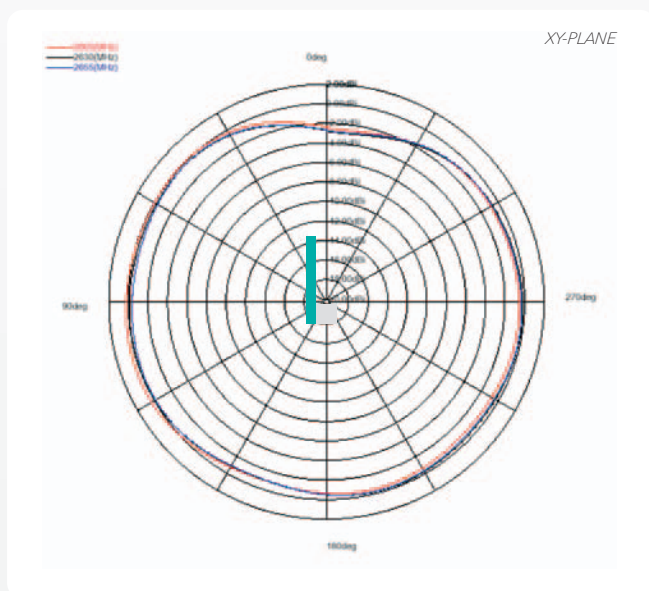
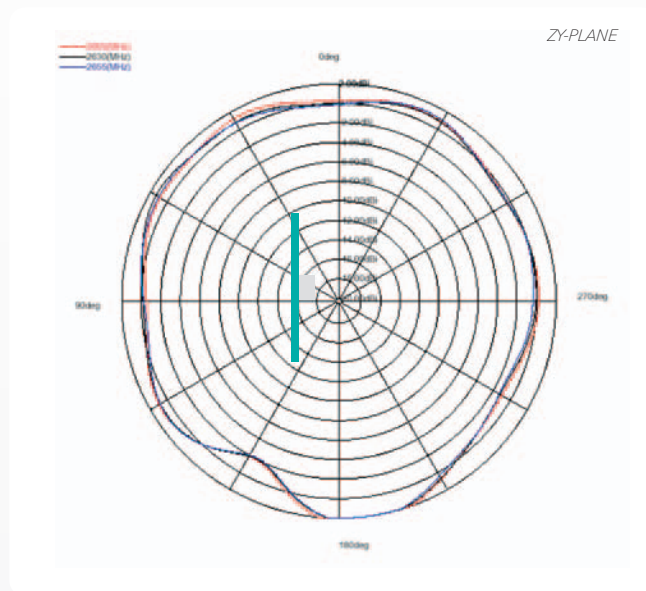
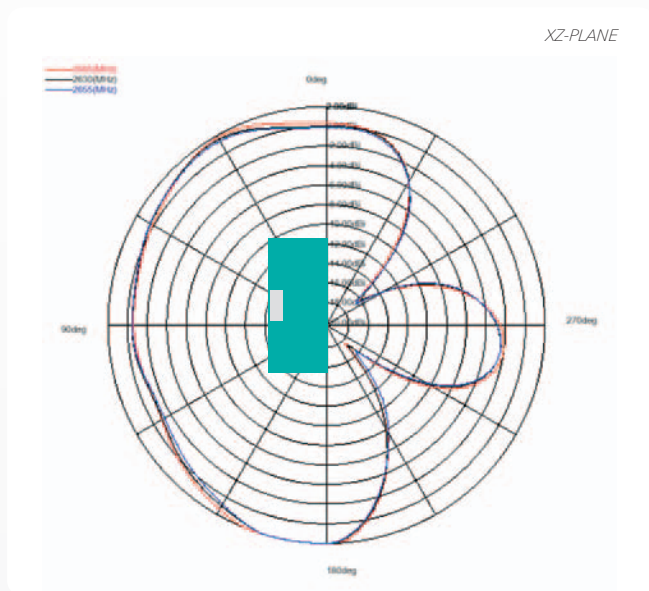
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Typical Free Space Radiation Patterns



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