

719 MHz MediaFLO Ceramic Chip Antenna

Ground cleared under antenna, clearance area **10.60 x 10.25 mm**

Pulse Part Number: W3024



Features

- Omnidirectional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 4 mm)
- Low weight (600 mg)
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS compliant

Applications

- MediaFlo Receivers
- 716–722 MHz

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.

MediaFLO 716–722 MHz

Typical performance (test board size 100 x 37 mm, PWB ground clearance area 10.60 x 10.25 mm)

Frequency Range [MHz]	Linear Max Gain [dBi]	Efficiency [%] / [dB]	Return Loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
716 – 722	2 (peak) 1.5 (band edges)	75 / -1.25 (peak) 70 / -1.55 (band edges)	-8	50	-40 to +85

Pulse Antennas

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Typical Electrical Characteristics (T=25 °C)

Measured on 100 x 37 mm test board

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

MediaFLO

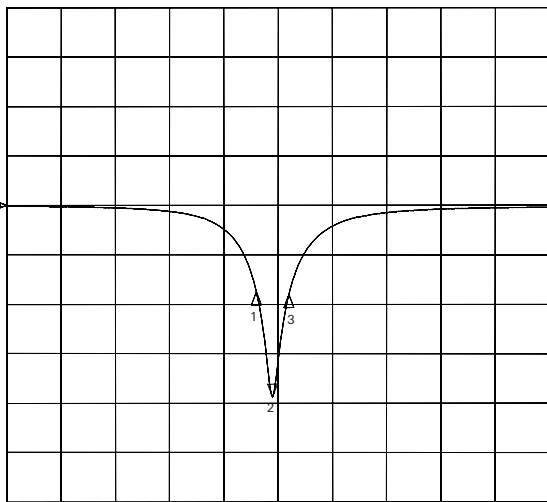
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CH1 S11&MLOG 5 dB/REF 0 dB

CH1Markers

- | | | |
|----|------------|-------------|
| 1. | -8.7588 dB | 716.000 MHz |
| 2. | 19.380 dB | 719.000 MHz |
| 3. | -9.0314 dB | 722.000 MHz |

PRm
Cor



CENTER 720.000 000 MHz

SPAN 100.000 000 MHz

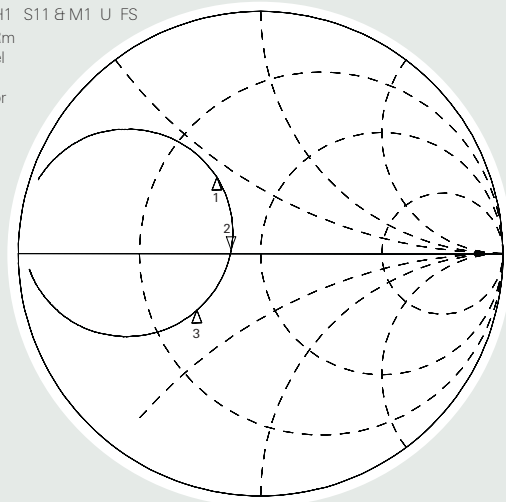
MediaFLO

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CH1Markers

- | | | | |
|----|-----------------|------------------|-------------|
| 1. | 29.077 Ω | 21.121 Ω | 716.000 MHz |
| 2. | 39.131 Ω | 1.3691 Ω | 303.07 pF |
| 3. | 26.601 Ω | -14.185 Ω | 722.000 MHz |

CH1 S11 & M1 U FS
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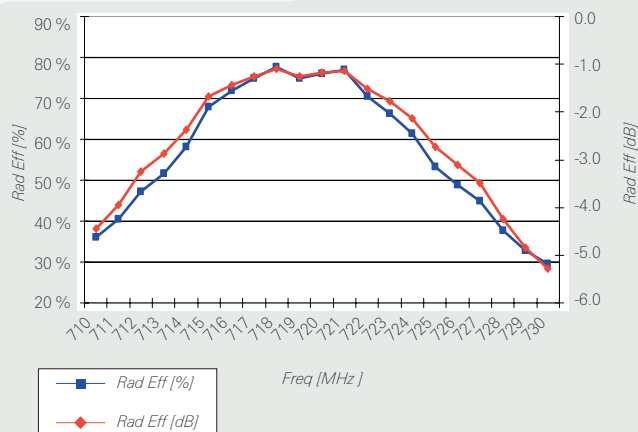


CENTER 720.000 000 MHz

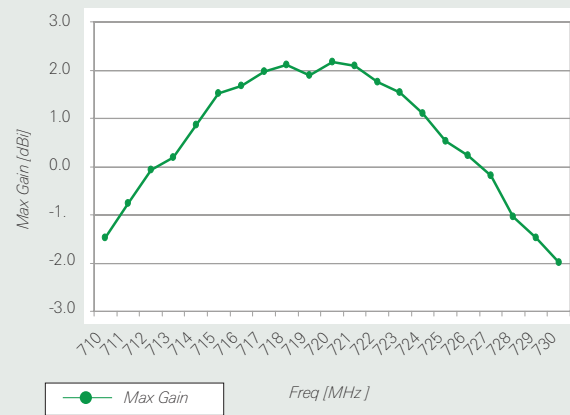
SPAN 100.000 000 MHz

Free space efficiency and maximum gain

MediaFLO



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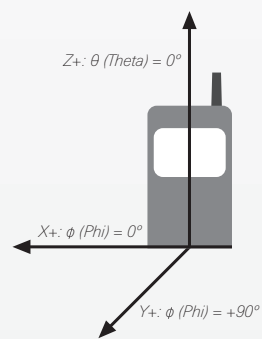
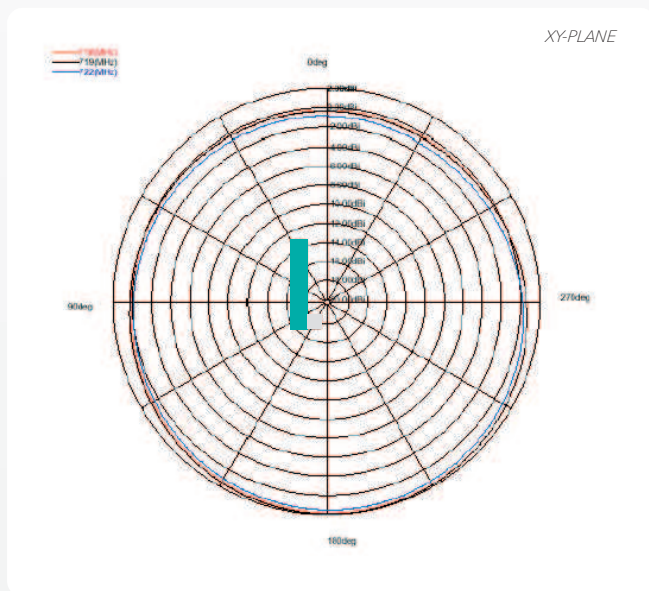
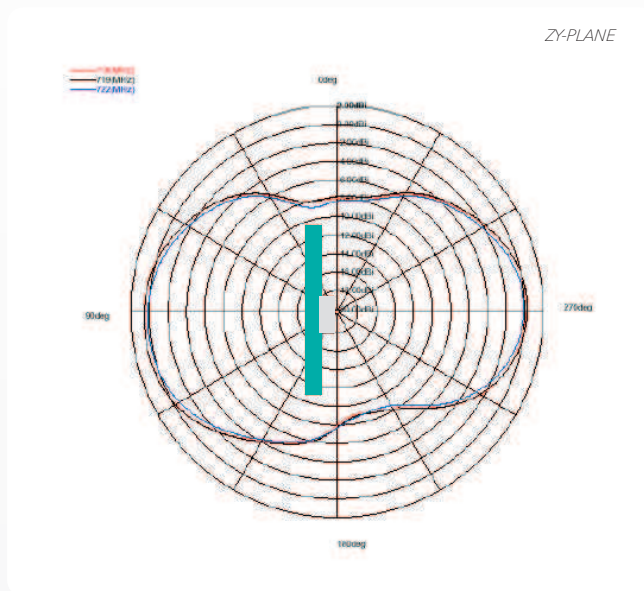
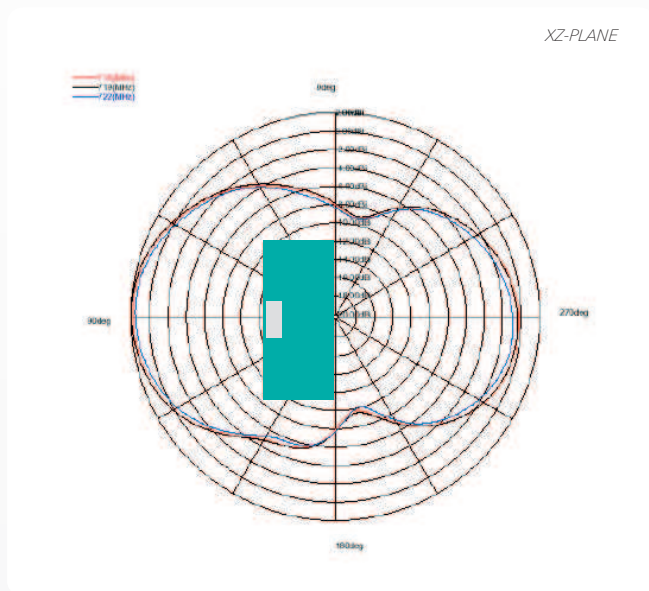
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Typical Free Space Radiation Patterns



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