Circular Polarization MIMO Omnidirectional Antenna
Model Number HZCMOSR/HZCMOSL *Preliminary*

HERTZIAN LABS

The **HZCMOS** is a passive, omnidirectional antenna designed for MIMO applications to augment the V/H polarization of traditional MIMO omni antennas. The internal antenna array is designed to provide circular polarization.

- Circular Left/Right Polarized Omni-directional Array
- 6 in. Repositionable Feed Stalk (3 in. capable)
- Rugged Fiberglass Radome
- IP68-Capable

Electrical Specifications/Connector	
Frequency Band	**S Band: 2.1-2.5 GHz**
Gain	**2.54 dBic**
Pattern	**Omnidirectional**
Return Loss	**-15 dB (nominal)**
Polarization	**HZCMOR = Right Circular (RHCP)** **HZCMOL = Left Circular (LHCP)**
Axial Ratio	**1.1-1.5 (typical)**
Connector/Feed	**RP-TNC Male with 6 in. feed stalk**

Mechanical/Environmental Specifications	
Materials	**Radome** **Encaps: PC/ABS** **Support Base, powder coated steel**
Mounting	**RPTNC Male, Spring Flex Positionable Base**
Temp Rating	**-40°F to +149°F (-40°C to +65°C) Operating and Storage**
Water Ingress	**IP66 (PROTOTYPE)**
Weight	**~8.5 oz (241 g), Approximate (not optimized)**
Dimensions	**Radome: 4.17 in (106 mm) Diameter x 2.4 in (61 mm) height** **Repositionable Feed: 6.20 in (157 mm) x 0.79 in (20 mm)** **Overall Length: 14.3 in (363 mm)**

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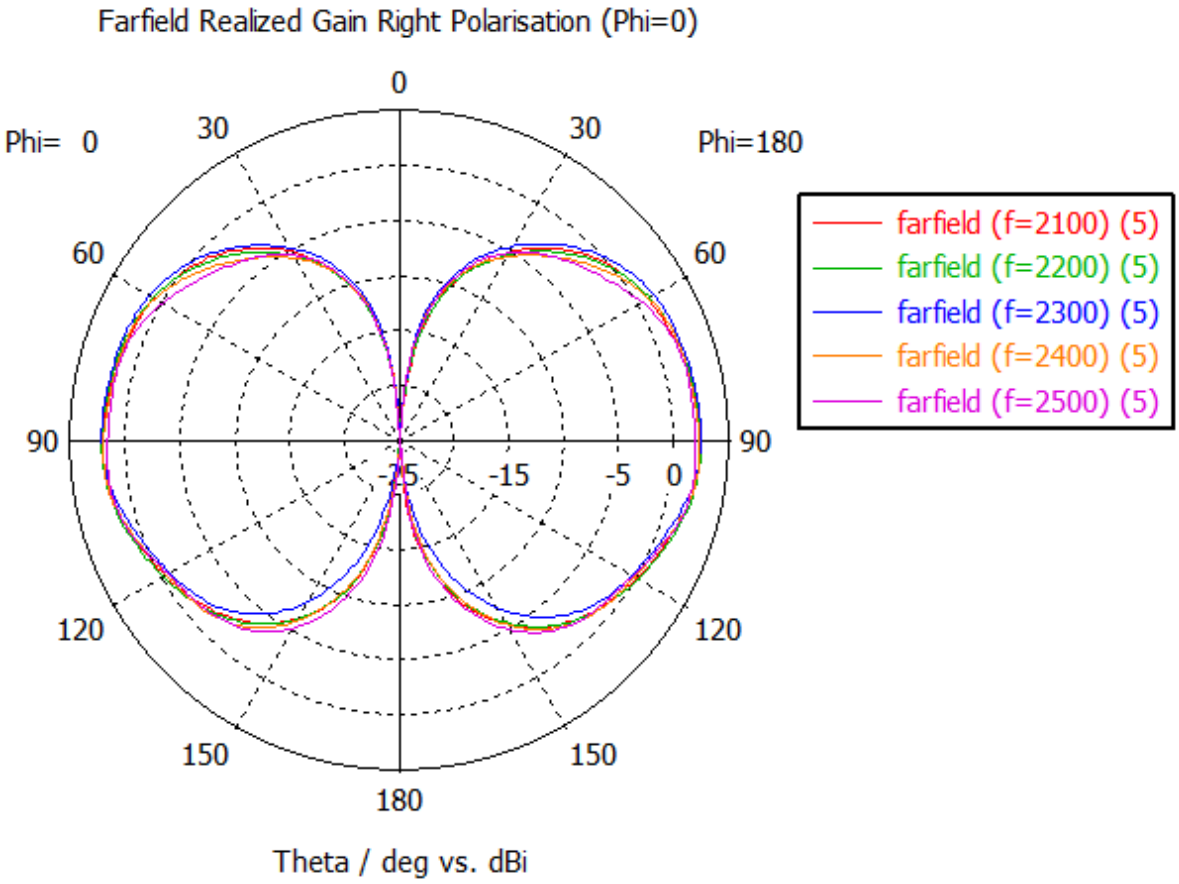

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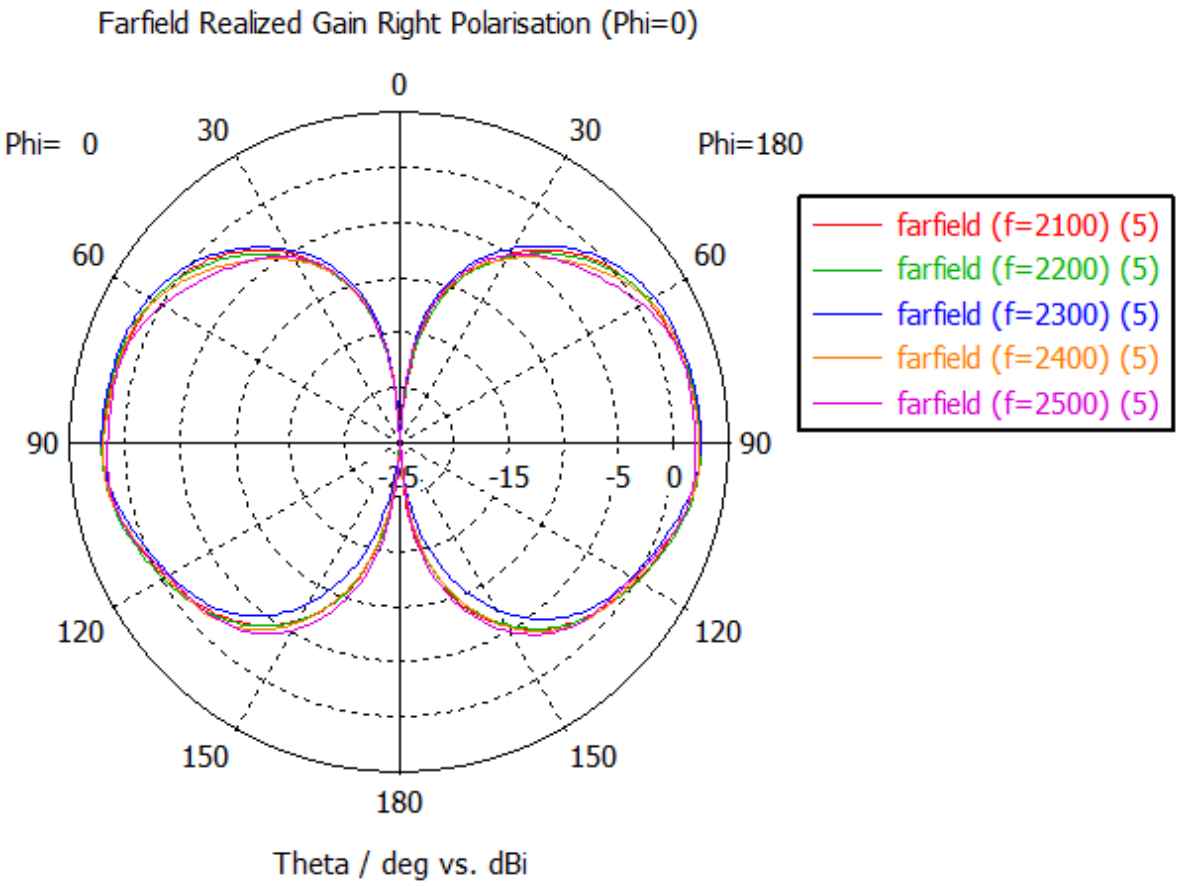

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