



Wi-Fi 2.4-2.48 and 4.9-5.9 GHz Antenna

Product Description

Parsec's PTA-2459B-5-001 Antenna is a high-gain, omnidirectional, external antenna that provides extended range for Wi-Fi applications. This high quality antenna uses a center-fed array to provide a consistent elevation pattern across both the 2.4-2.48 and 4.9-5.9 GHz bands. The PTA-2459B-5-001 is a ground independent design that provides consistent performance independent of the size and shape of the Wi-Fi product it is mounted on.

Detailed product information and options are available under NDA. Patent pending.

Features

- Frequency range: 2.4 – 2.48 and 4.9 – 5.9 GHz
- Omni-directional
- High Gain: 4.7 dB @ 2.44 GHz , 7.6 dB @ 5.5 GHz
- Ground independent
- Consistent performance in diverse applications
- Rugged ABS radome
- Reverse SMA connector

Applications

- Wi-Fi

Electrical Specifications

ID	Parameters	Units	Typ.
Peak Gain	2.4 – 2.48 GHz	dBi	4.7
	4.9 – 5.9 GHz		7.6
Return Loss (50 Ω)	2.4 – 2.48 GHz	dB	10
	4.9 – 5.9 GHz		8
Polarization			Vertical
Max Input Power	2.4 – 2.48 GHz	Watts	5
	4.9 – 5.9 GHz		
RF Connector			TBD

Mechanical

Dimensions	200 mm length x 40 mm width
Mounting	Connector

Environmental

Operating Temperature	-40°C to 85°C
Classification	Indoor
Relative Humidity	95% RH, non-condensing at 65°C

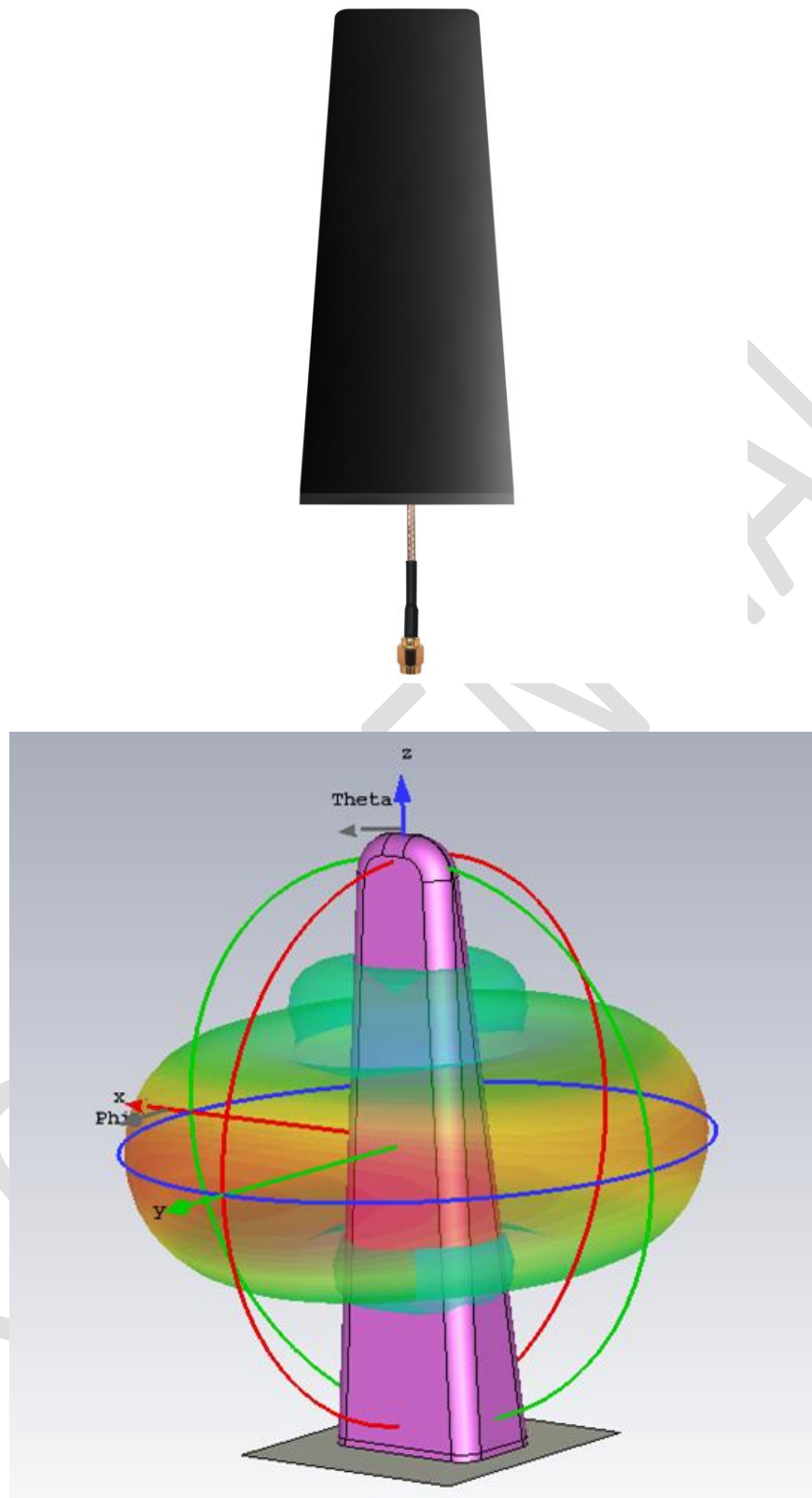


Figure 1. PTA-2459B-5-001 3D View

Typical Performance

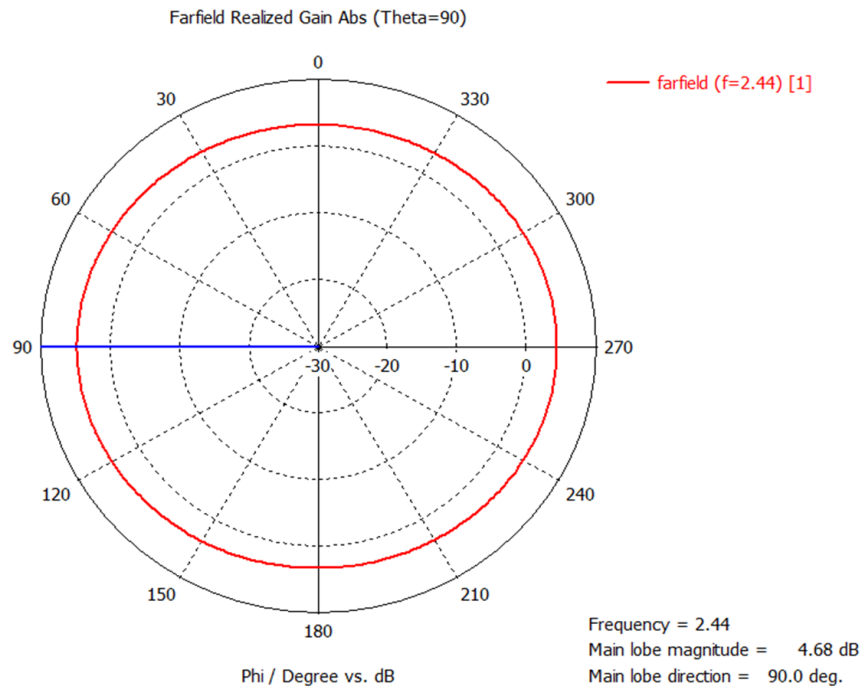


Figure 2. Typical Azimuth Pattern (2.44 GHz)

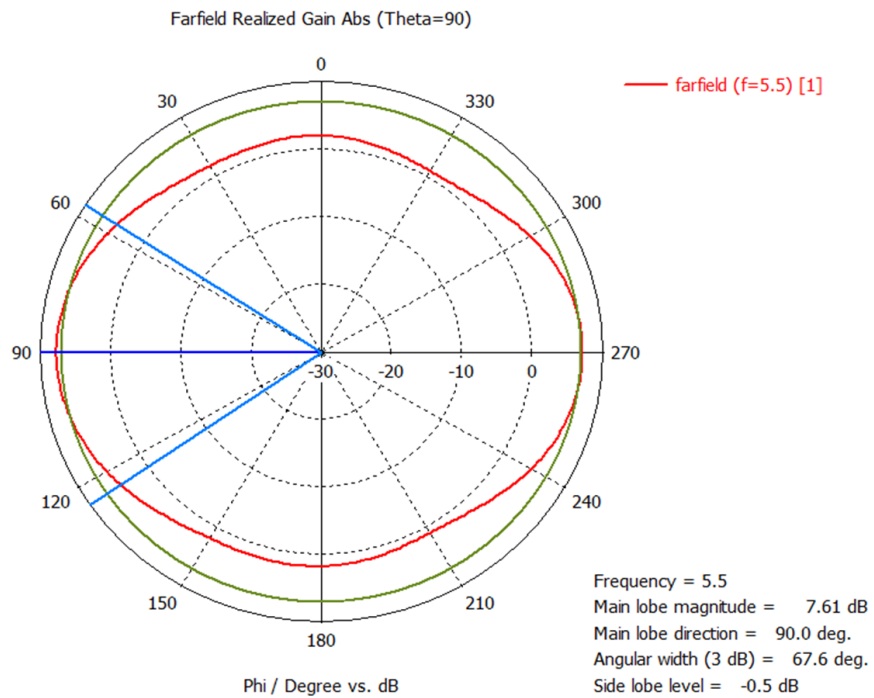


Figure 3. Typical Azimuth Pattern (5.5 GHz)

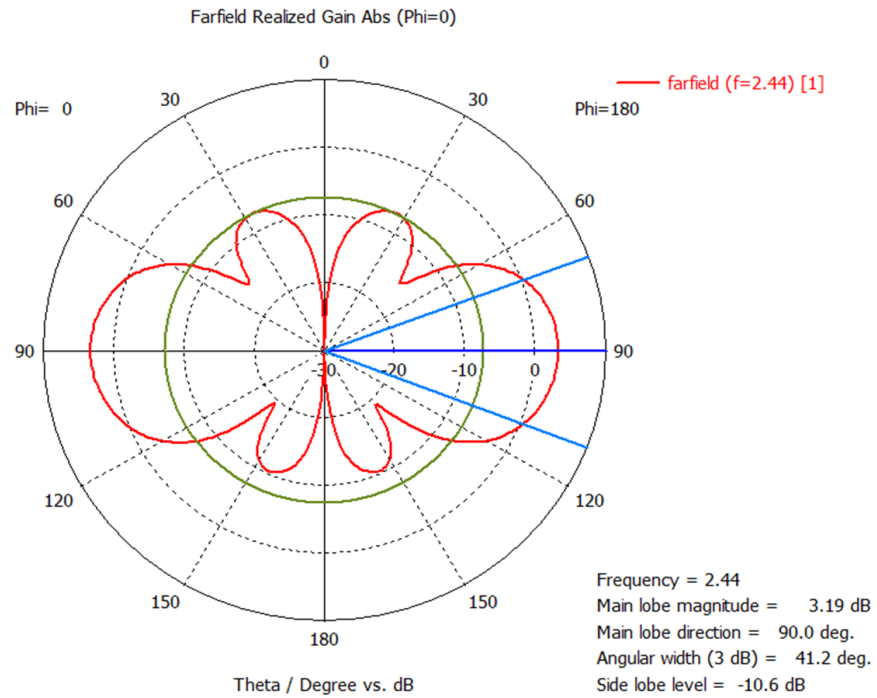


Figure 4. Typical Elevation Pattern, Phi=0 (2.44 GHz)

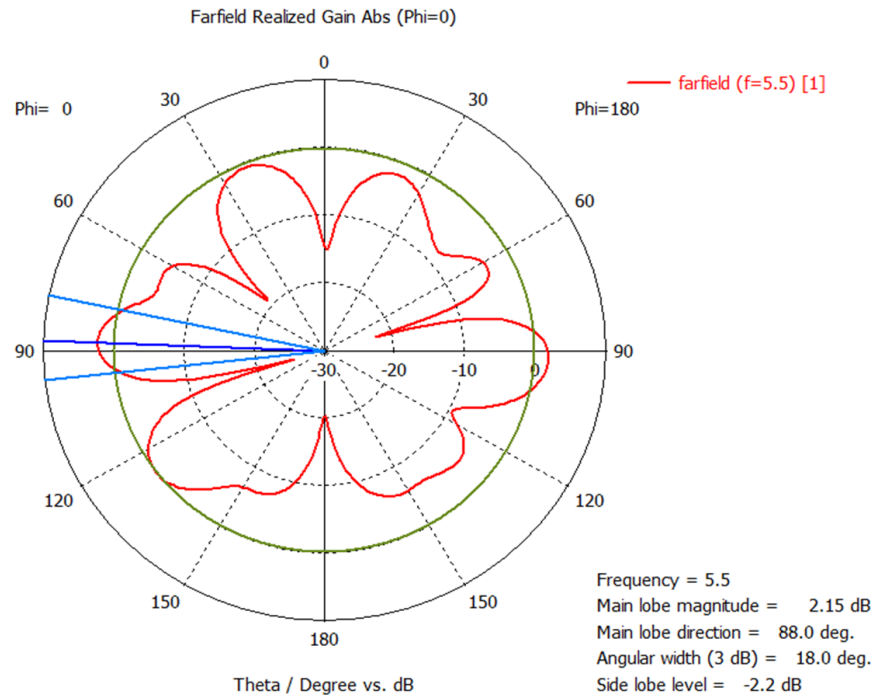


Figure 5. Typical Elevation Pattern, Phi=0 (5.5 GHz)

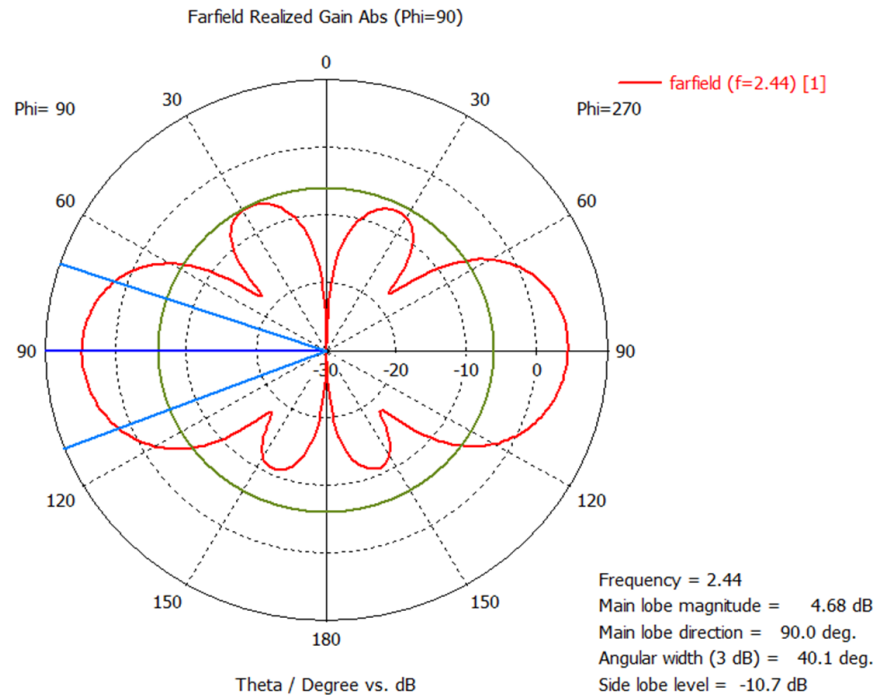


Figure 6. Typical Elevation Pattern, Phi=90 (2.44 GHz)

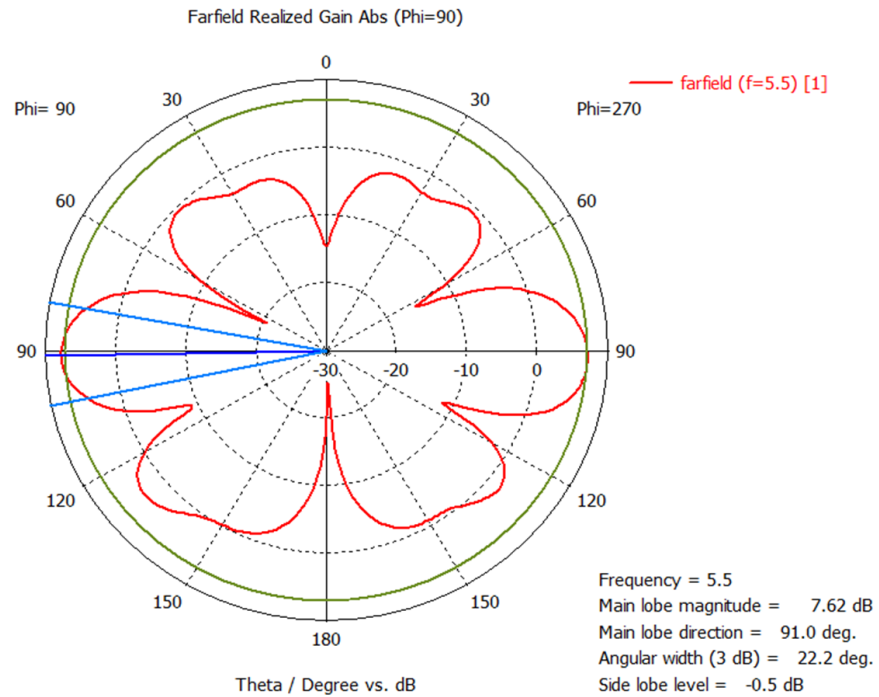


Figure 7. Typical Elevation Pattern, Phi=90 (5.5 GHz)

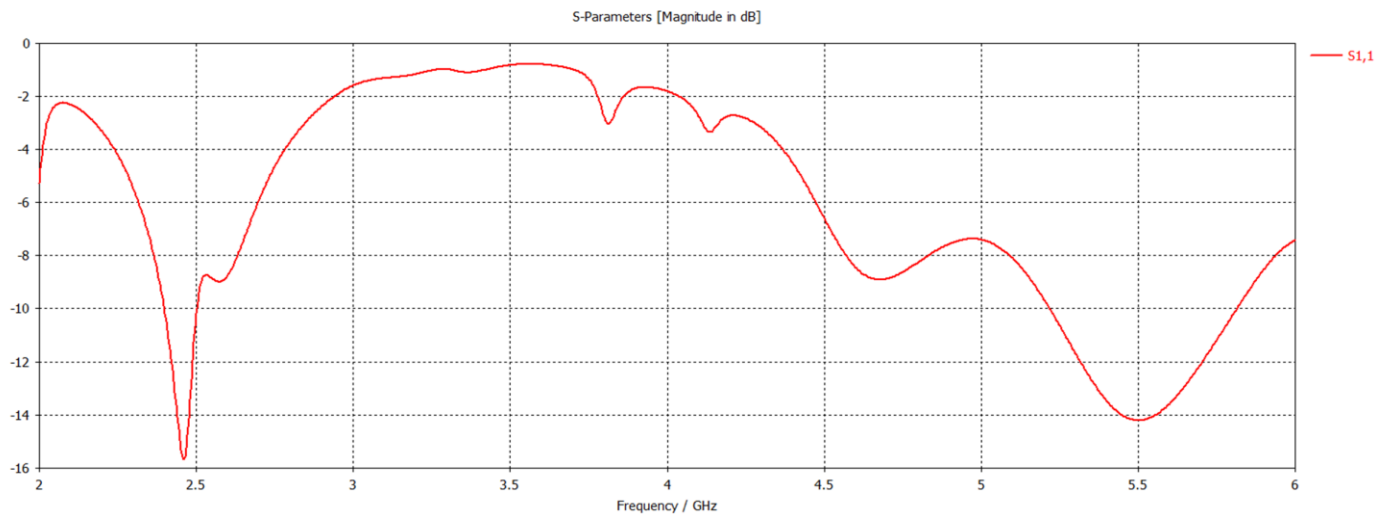


Figure 8. Typical Return Loss vs. Frequency

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Ordering Information

Part Number	PTA-2459B-5-001
Packing for Shipment	Protective box, qty. TBD per box.