



Pro Series

MIMO LTE External IP67 Antenna

Product Description

Parsec’s PTA PRO2ST 2LTE is a small footprint two-in-one MIMO LTE external waterproof antenna. This compact rugged omnidirectional antenna works on all the common worldwide LTE bands with high efficiency. The PTA PRO2ST 2LTE is optimized for small footprint to fit the top of common metal electrical equipment boxes. The strong tamper resistant housing with no exposed connections or mounting hardware is ideally suited for use with self-service kiosks in public areas. The antenna requires a single 1 inch mounting hole.

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

Features

- LTE frequency range: 698 – 960 MHz
1710 – 2700 MHz
- Omni-directional
- MIMO LTE
- High Efficiency: 70%
- Small footprint

Applications

- External M2M, IoT Applications
- SCADA, Industrial monitoring
- Oil and natural gas fields
- Self-service kiosks

Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE-1,2	698 – 960 MHz	%	70
	LTE-1,2	1710 – 2700 MHz		70
Peak Gain	LTE-1,2	698 – 960 MHz	dBi	3.7
	LTE-1,2	1710 – 2700 MHz		4.9
Return Loss (50 Ω)	LTE-1,2	698 – 960 MHz	dB	8
	LTE-1,2	1710 – 2700 MHz		8
Isolation	LTE-1 to 2	698 – 960 MHz	dB	8.5
	LTE-1 to 2	1710 – 2700 MHz		11
Polarization	LTE			Linear
Max Input Power	LTE		Watts	5
RF Connector	LTE			SMA(M)
RF Cable Type	LTE			LMR200

Notes:

1. Electrical specifications based on antenna with a 5 in. x 8 in. external ground plane.
2. Isolation does not include cable loss.

LTE Bands Covered for US Carriers

AT&T	2, 4, 5, 14, 17, 29, 30, 66
Verizon	2, 4, 5, 13, 66
T-Mobile	2, 4, 12, 66
Sprint	2, 25, 26, 41

Mechanical

Dimensions	3.75 inch diameter x 3.26 inch height
Mounting Hole	Single 1 inch
RF Cable Length	Choice of 1, 2, or 6 foot cables

Environmental

Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

PTA PRO2ST 2LTE

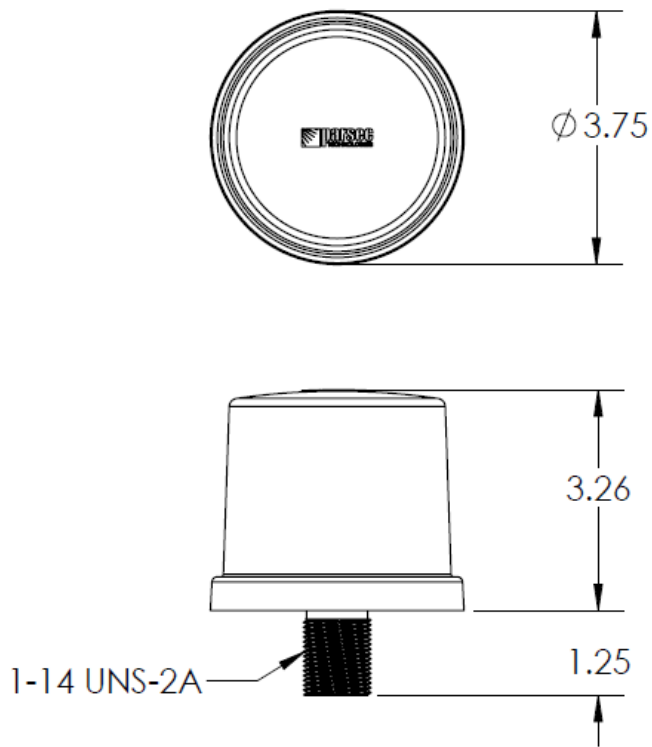


Figure 1. Product Dimensions



Figure 2. Product Picture

Typical Performance

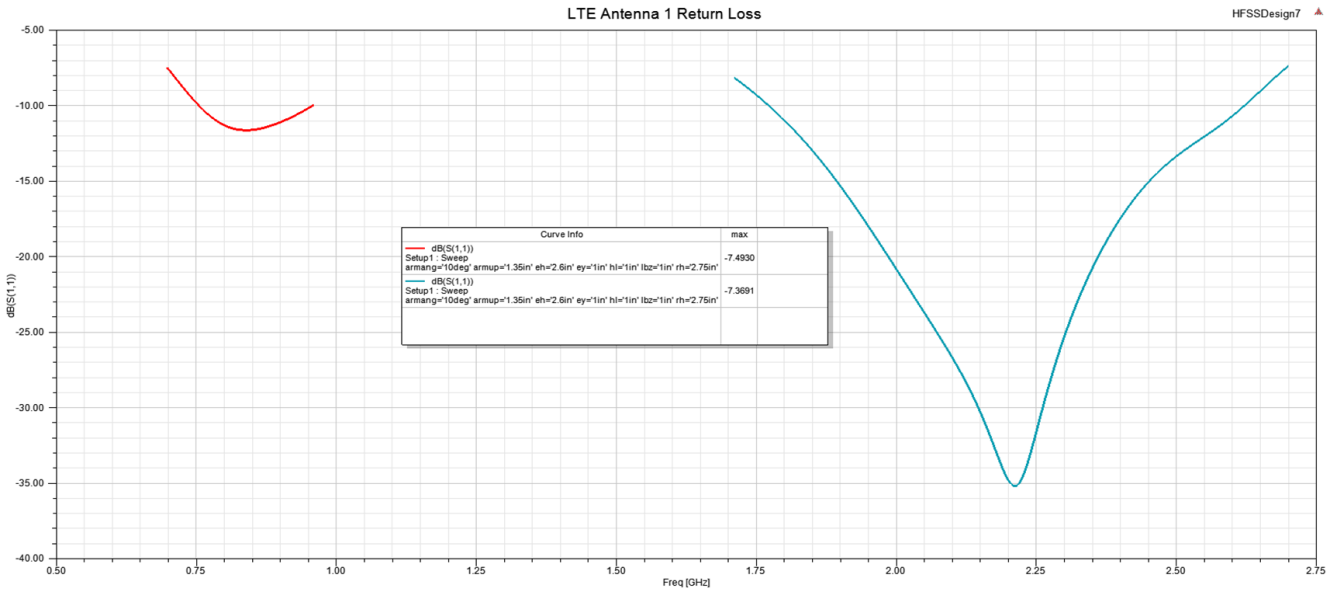


Figure 3. LTE Antenna 1 Return Loss

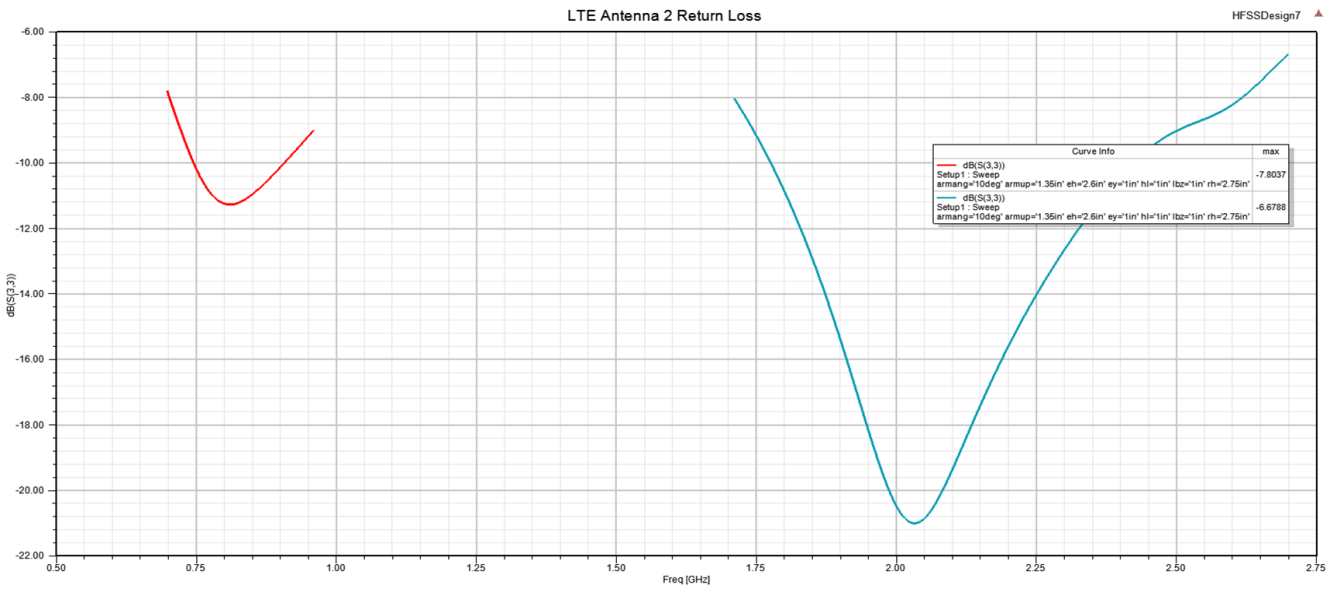


Figure 4. LTE Antenna 2 Return Loss

PTA PRO2ST 2LTE

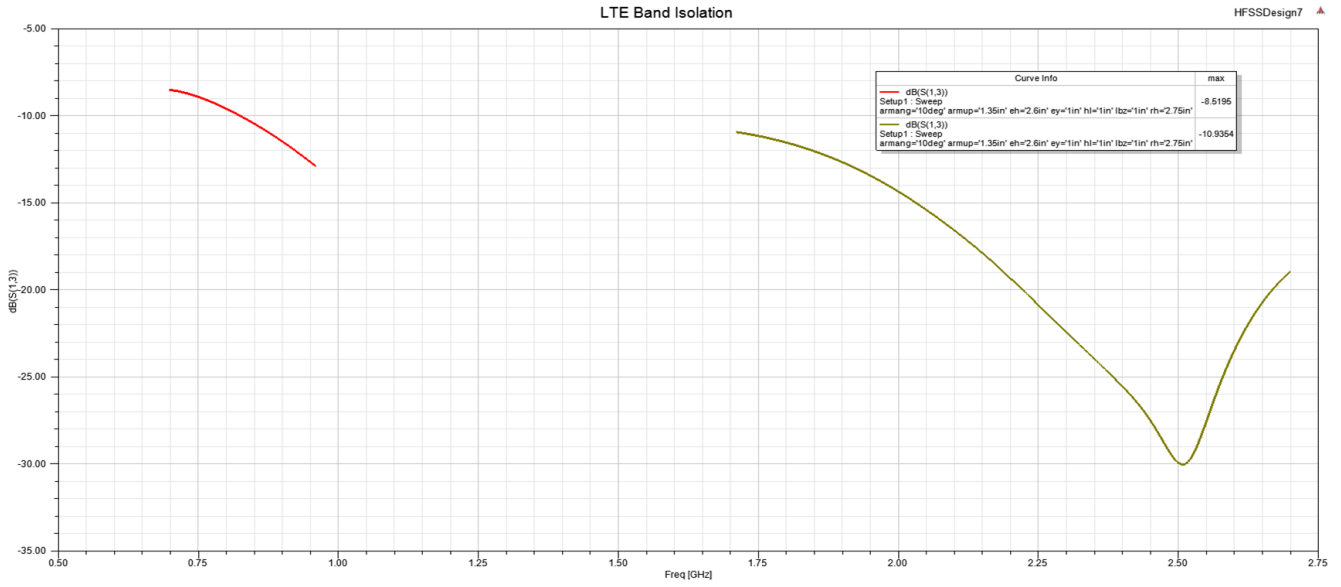


Figure 5. LTE Antenna Isolation

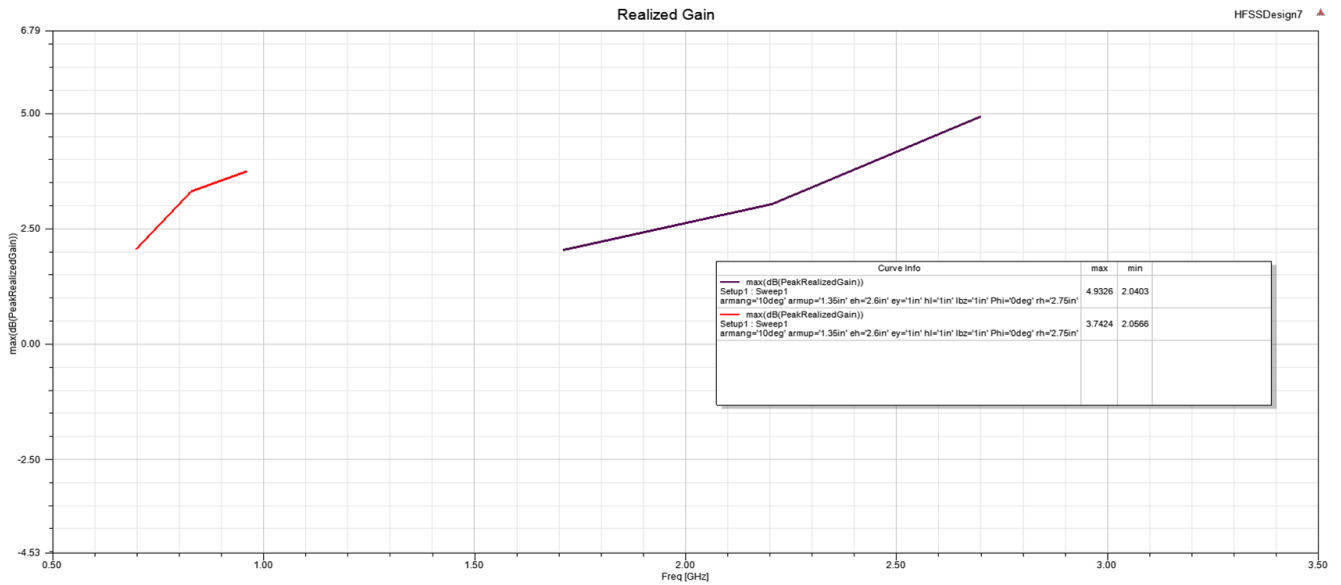


Figure 6. LTE Antenna Gain

PTA PRO2ST 2LTE

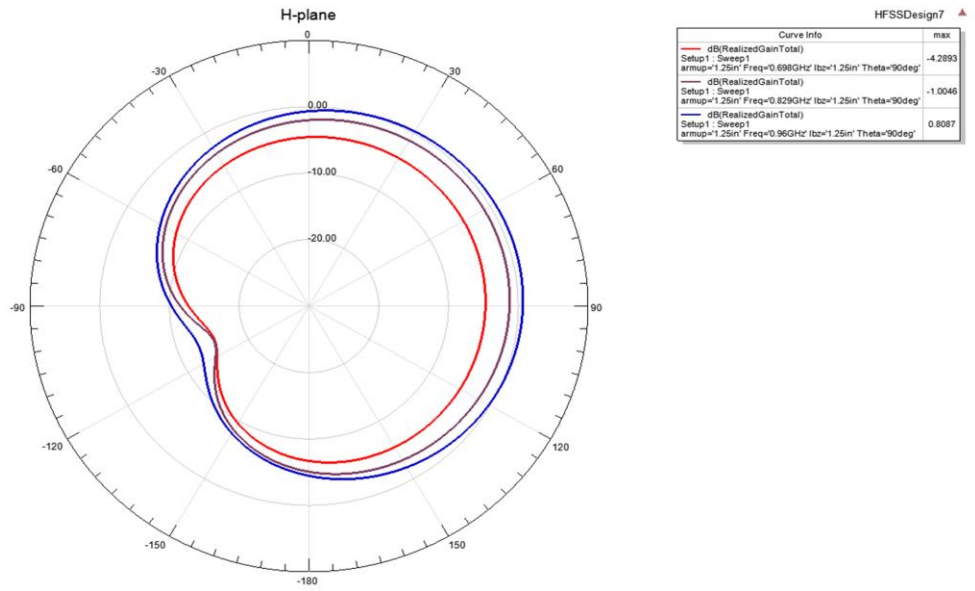


Figure 7. LTE, Azimuth, Low Band, Phi/Deg, Theta = 90

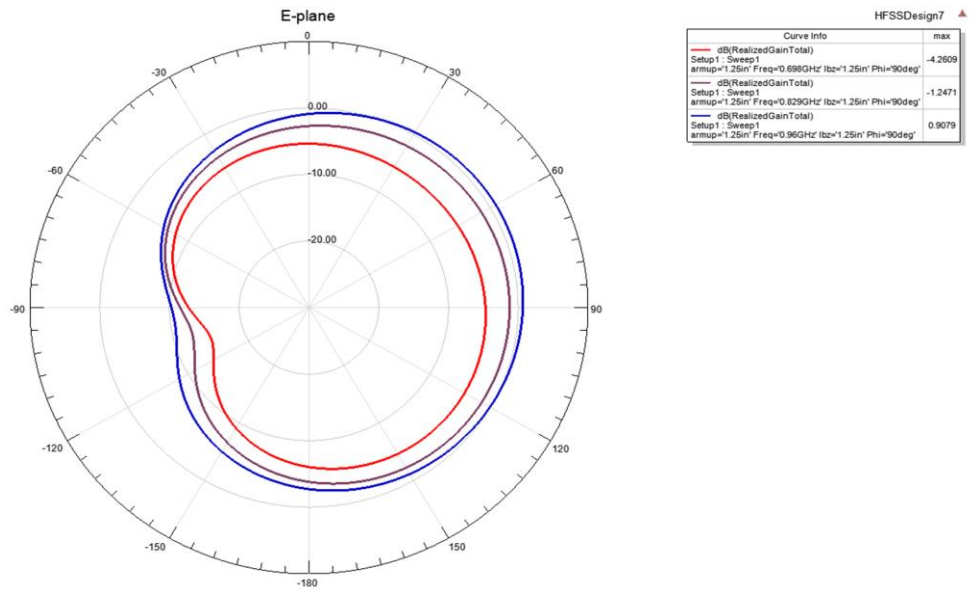


Figure 8. LTE, Elevation, Low Band, Theta/Deg, Phi = 90

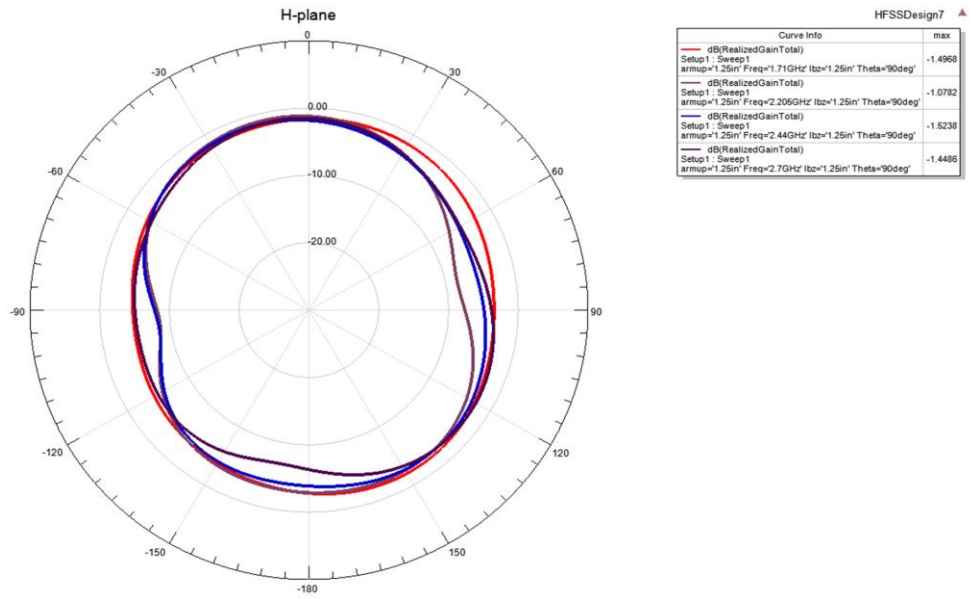


Figure 9. LTE, Azimuth, High Band, Phi/Deg, Theta = 90

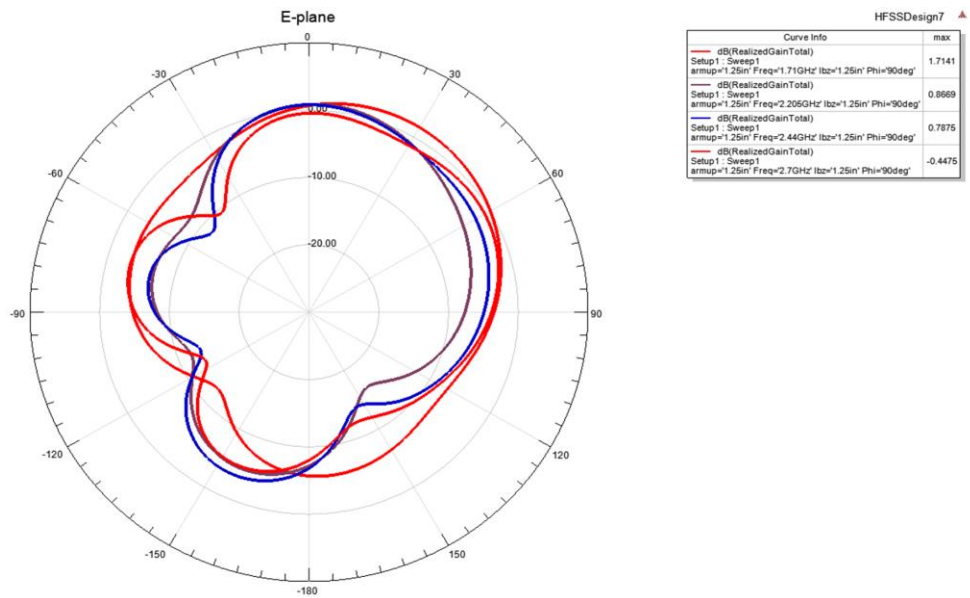


Figure 10. LTE, Elevation, High Band, Theta/Deg, Phi = 90

Contact Information

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Ordering Information

Part Number	PTA PRO2ST 2LTE 001	1 foot long cables
	PTA PRO2ST 2LTE 002	2 foot long cables
	PTA PRO2ST2LTE 006	6 foot long cables

Add B for Black Radome, W for White Radome

Custom cable lengths available

Packing for Shipment Protective box, qty. 1 per box.