



## Doberman - Pro Series 2 in 1 Antenna

MIMO LTE External IP67 Antenna

### Product Description

Parsec's PTA PRO2D 2LTE is a low profile two-in-one MIMO LTE external waterproof antenna. This rugged low profile omnidirectional antenna works on all the common North American LTE bands with high efficiency. Also supports CBRS and LAA. The PTA PRO2D 2LTE is optimized for excellent LTE performance when mounted on a vehicle roof. The antenna requires a single 1 inch mounting hole. D Series configurable in 6:1, 5:1, 4:1, 3:1, and 2:1

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

### Features

- LTE frequency range: 617 – 894 MHz  
1695 – 2700 MHz  
3300 – 3800 MHz  
5150 – 5925 MHz
- MIMO LTE
- High Efficiency: 85%
- Omni-directional

### Applications

- Transportation / Fleet
- FirstNet / Critical Responders
- Remote video monitoring, Mobile broadband

### Electrical Specifications

ID	Port	Parameters	Units	Typ.
<b>Radiated Efficiency</b>	LTE-1,2	617 – 894 MHz		85
	LTE-1,2	1695 – 2700 MHz	%	85
	LTE-1,2	3300 – 3800 MHz		70
	LTE-1,2	5150 – 5925 MHz		65
<b>Peak Gain</b>	LTE-1,2	617 – 894 MHz		5
	LTE-1,2	1695 – 2700 MHz	dB	7
	LTE-1,2	3300 – 3800 MHz		7
	LTE-1,2	5150 – 5925 MHz		7
<b>Return Loss (50 Ω)</b>	LTE-1,2	617 – 894 MHz		9.5
	LTE-1,2	1695 – 2700 MHz	dB	12
	LTE-1,2	3300 – 3800 MHz		9
	LTE-1,2	5150 – 5925 MHz		8
<b>Isolation</b>	LTE	617 – 894 MHz		9.5
	LTE	1695 – 2700 MHz	dB	15
	LTE	3300 – 3800 MHz		20
	LTE	5150 – 5925 MHz		25

**Electrical Specifications (continued)**

<b>Polarization</b>	LTE		Linear
<b>Max Input Power</b>	LTE	Watts	60
<b>RF Connectors</b>	LTE		SMA(M)
<b>Cables</b>	LTE		LMR200

**Notes:**

1. Electrical specifications based on antenna with a 2 ft. x 2 ft. external ground plane.
2. Isolation and return loss does not include cable loss.

**LTE Bands Covered for US Carriers**

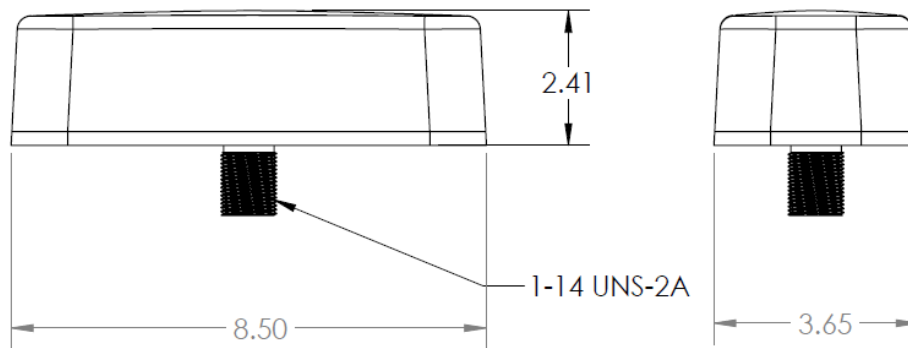
<b>AT&amp;T</b>	2, 4, 5, 14, 17, 29, 30, 46, 48, 66
<b>Verizon</b>	2, 4, 5, 13, 46, 48, 66
<b>T-Mobile</b>	2, 4, 12, 46, 48, 66, 71
<b>Sprint</b>	2, 25, 26, 41, 46, 48

**Mechanical**

<b>Dimensions</b>	8.50 in. L x 3.65 in. W x 2.41 in. H
<b>Mounting Hole</b>	Single 1 inch
<b>RF Cable Length</b>	Choice of 3, 6, 10, or 15 foot cable

**Environmental**

<b>Operating Temperature</b>	-40°C to 85°C
<b>Ingress Protection</b>	IP67 waterproof



**Figure 1. Product Dimensions**



**Figure 2. Product Picture**

### Typical Performance

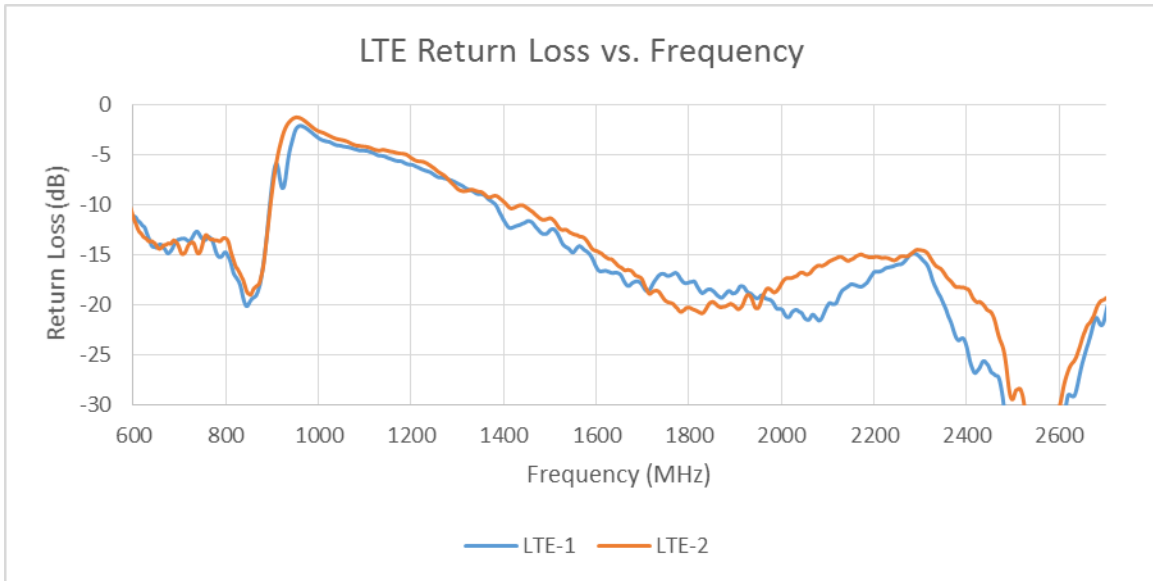


Figure 3. LTE Return Loss

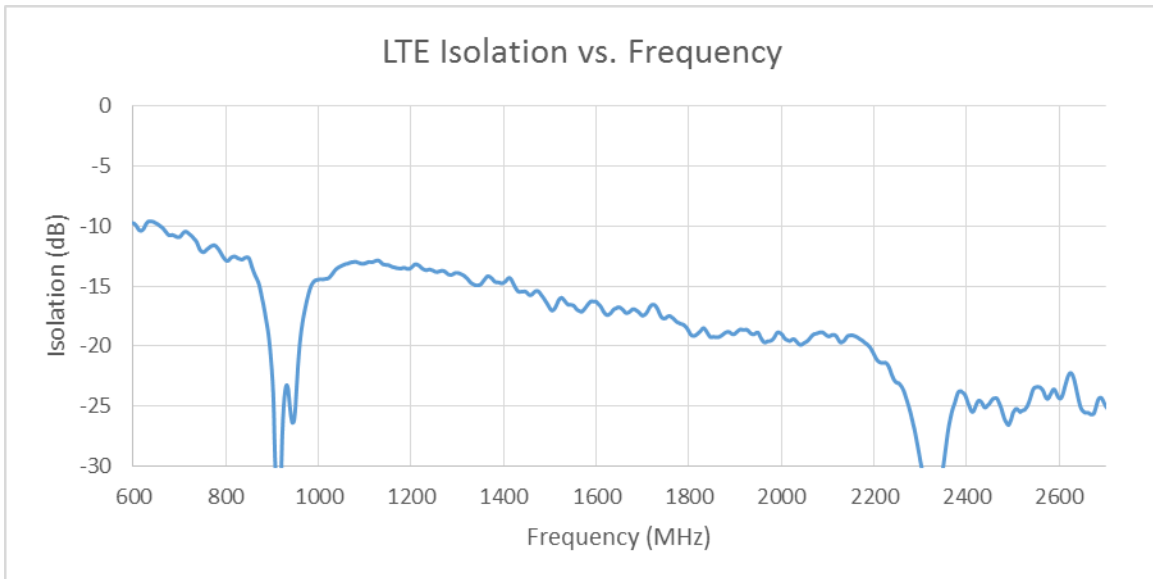


Figure 4. LTE Isolation

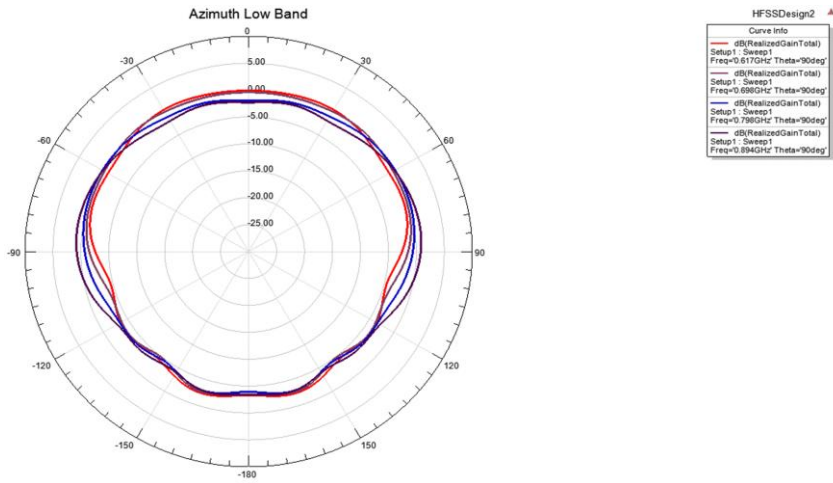


Figure 5. LTE, Azimuth, Low Band, Phi/Deg, Theta = 90

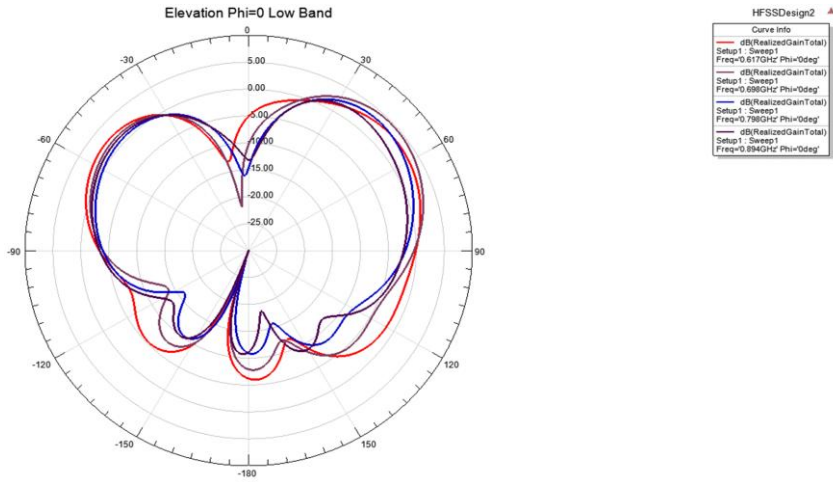


Figure 6. LTE, Elevation, Low Band, Theta/Deg, Phi = 0

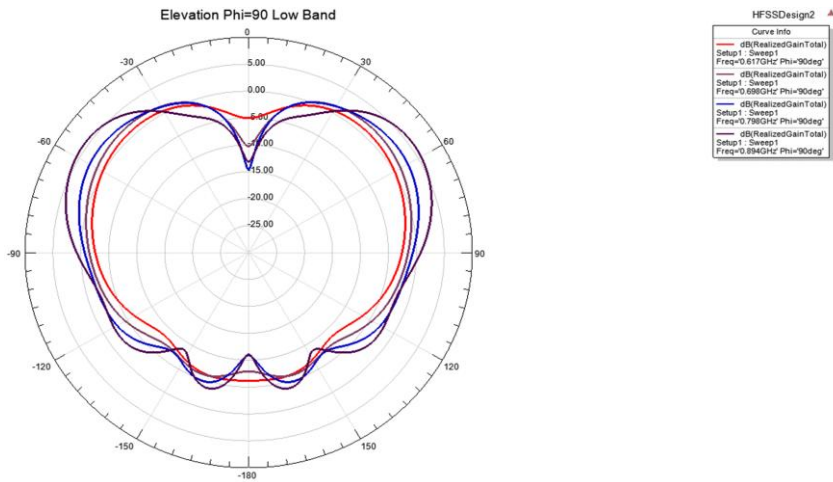


Figure 7. LTE, Elevation, Low Band, Theta/Deg, Phi = 90

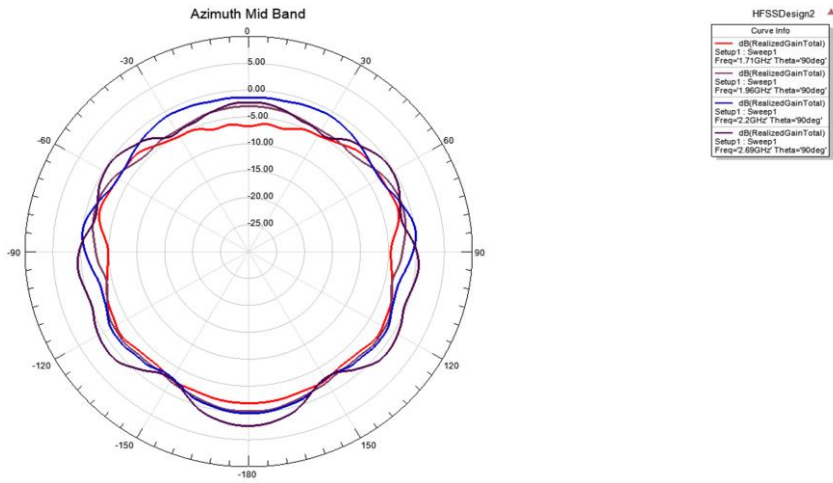


Figure 8. LTE, Azimuth, Mid/High Band, Phi/Deg, Theta = 90

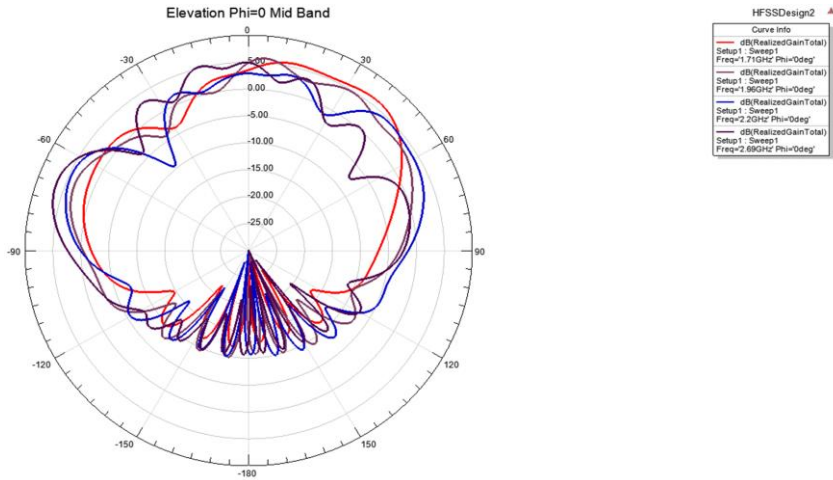


Figure 9. LTE, Elevation, Mid/High Band, Theta/Deg, Phi = 0

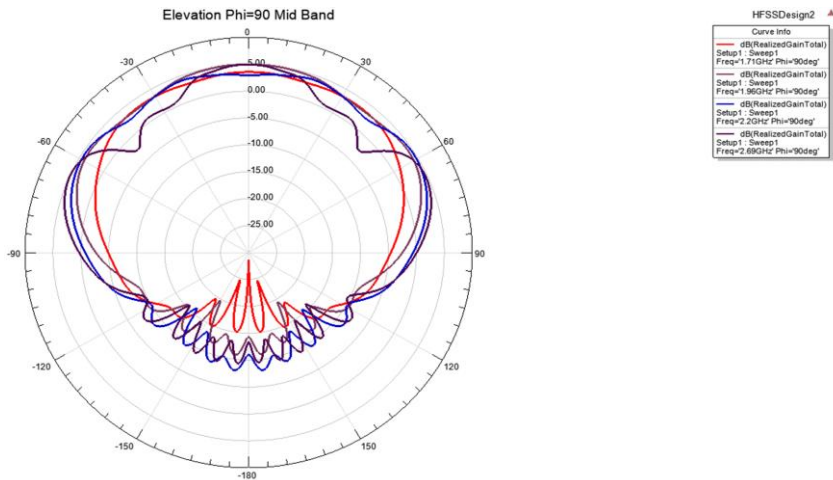


Figure 10. LTE, Elevation, Mid/High Band, Theta/Deg, Phi = 90

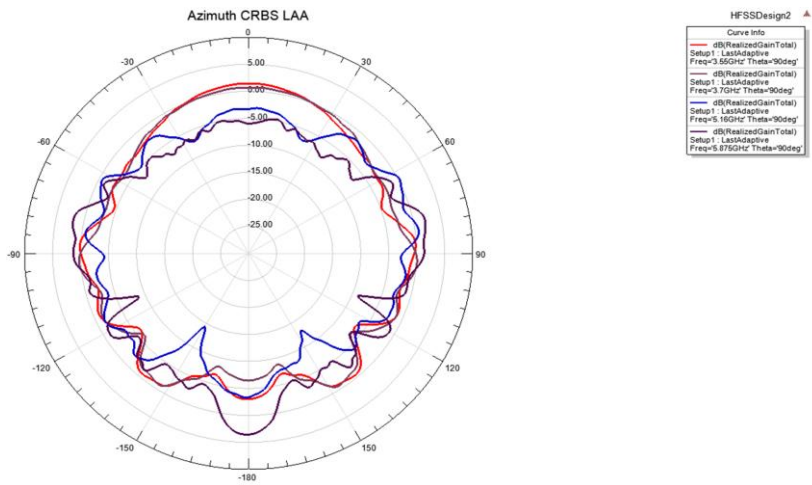


Figure 11. LTE, Azimuth, 3.5/5 GHz Band, Phi/Deg, Theta = 90

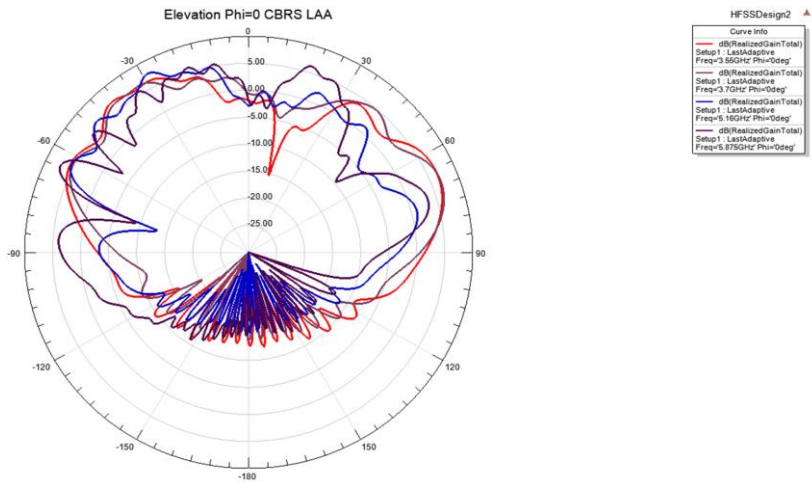


Figure 12. LTE, Elevation, 3.5/5 GHz Band, Theta/Deg, Phi = 0

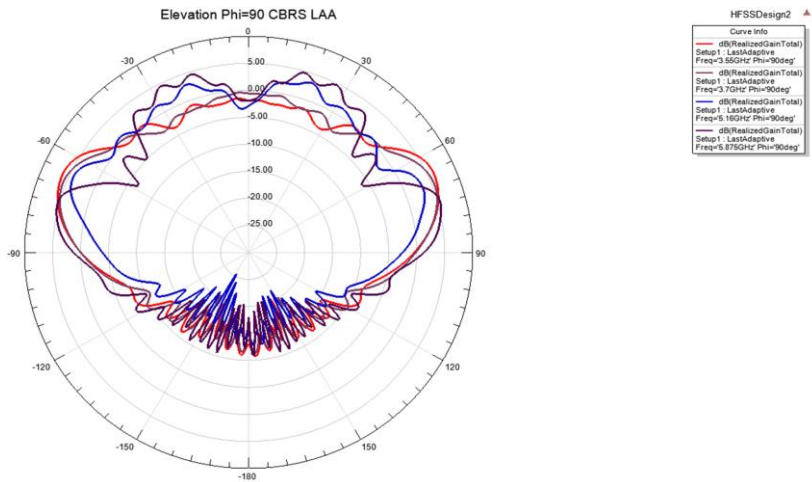


Figure 13. LTE, Elevation, 3.5/5 GHz Band, Theta/Deg, Phi = 90

**Contact Information**

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**Ordering Information**

Part Number	PTAPRO2D2LTE003	3 foot long cables
	PTAPRO2D2LTE006	6 foot long cables
	PTAPRO2D2LTE010	10 foot long cables
	PTAPRO2D2LTE015	15 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.