



WM Series

MIMO LTE Wall Mount Antenna

Product Description

Parsec's PTA-WM-2XLTE-XXX is a compact two-in-one MIMO LTE external antenna. This unobtrusive omni-directional antenna works on all the common worldwide LTE bands with high efficiency. The PTA-WM-2XLTE-XXX is optimized for attachment to a sheetrock wall in an office environment. It is ideally suited to indoor applications where a higher performance alternative to screw on antennas is required. The PTA-WM-2XLTE-XXX has an IP54 ingress protection rating and may also be mounted outdoors.

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

Features

- **LTE frequency range: 698 – 894
1695 – 2200 MHz
2300 – 2700 MHz**
- **Omni-directional**
- **High Efficiency: 90%**
- **Unobtrusive wall mount package**

Applications

- **External M2M, IoT applications**
- **Wireless internet access for retail**
- **Failover to wireless internet backup**

Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE-1,2	698 – 894 MHz		80
	LTE-1,2	1695 – 2200 MHz	%	90
	LTE-1, 2	2300 – 2700 MHz		80
Peak Gain	LTE-1,2	698 – 894 MHz		3
	LTE-1,2	1695 – 2200 MHz	dBi	6
	LTE-1,2	2300 – 2700 MHz		4
Return Loss (50 Ω)	LTE-1,2	698 – 894 MHz		7
	LTE-1,2	1695 – 2200 MHz	dB	10
	LTE-1,2	2300 – 2700 MHz		8
Isolation	LTE-1,2	698 – 894 MHz		10
	LTE-1,2	1695 – 2200 MHz	dB	17
	LTE-1,2	2300 – 2700 MHz		17
Polarization	LTE-1,2			Linear
Max Input Power	LTE-1,2		Watts	5
RF Connector	LTE-1,2			SMA(M)
RF Cable Type	LTE-1,2			LMR200
RF Cable Length	LTE-1,2	Choice of 3, 6, 10, or 15 foot cable		

Notes:

1. Isolation does not include cable loss
2. Performance will be degraded if the antenna is mounted close to wiring or metal wall studs

Mechanical

Dimensions	8 inch width x 6.2 inch height x 1 inch thickness excluding bracket
Mounting	Bracket with screws to a non-metallic surface

Environmental

Operating Temperature	-40°C to 85°C
Rating	IP54 outdoor



Figure 1. Product Picture

Typical Performance

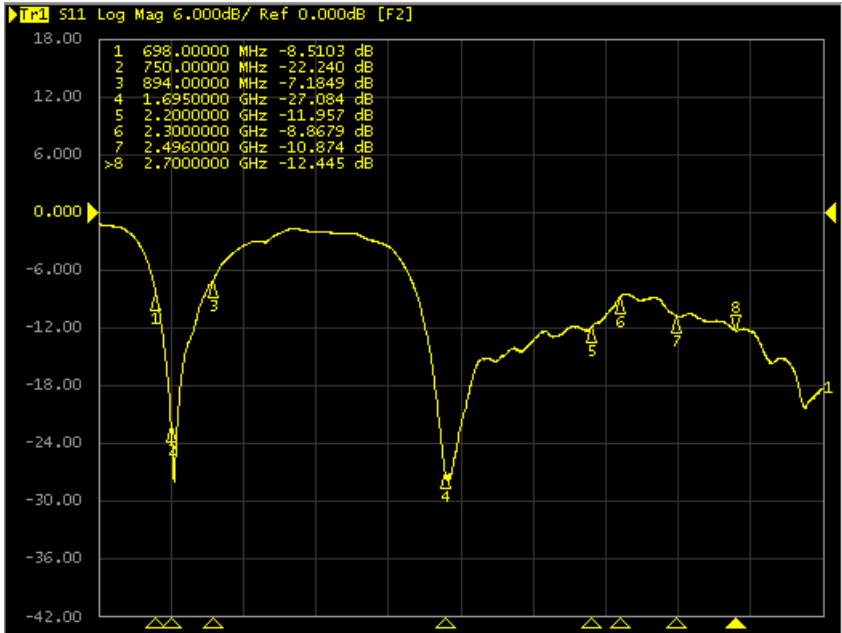


Figure 2. Measured LTE Antenna Return Loss

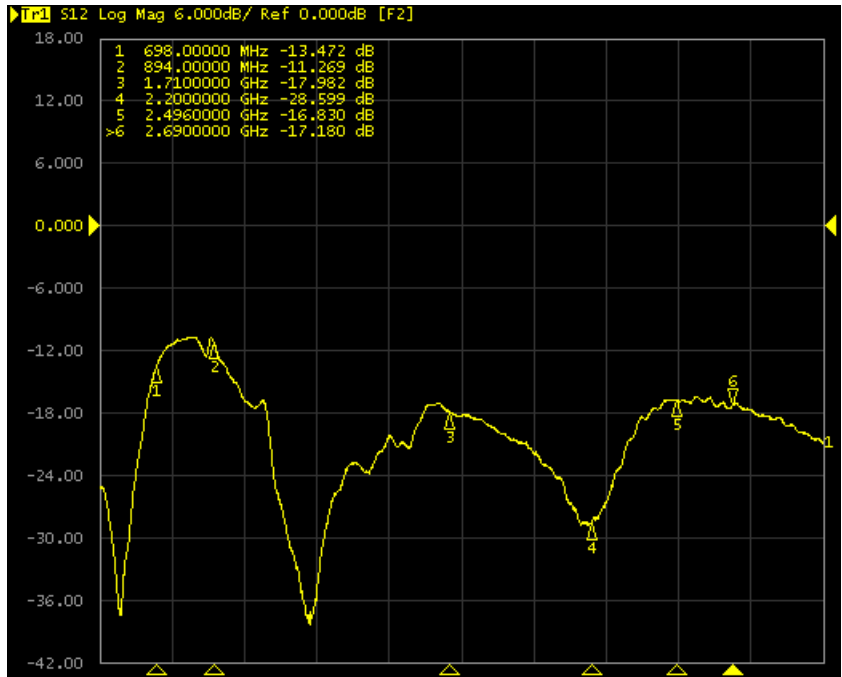


Figure 3. Measured LTE-1 to LTE-2 Isolation

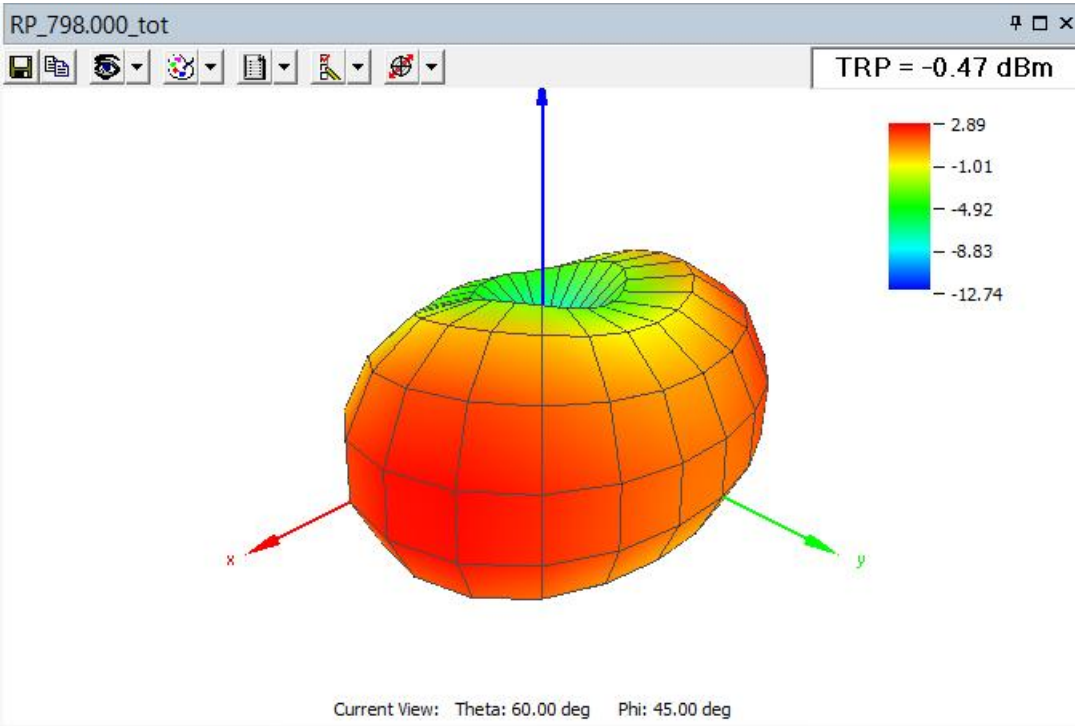


Figure 4. Measured Low Band 3D Radiation Pattern

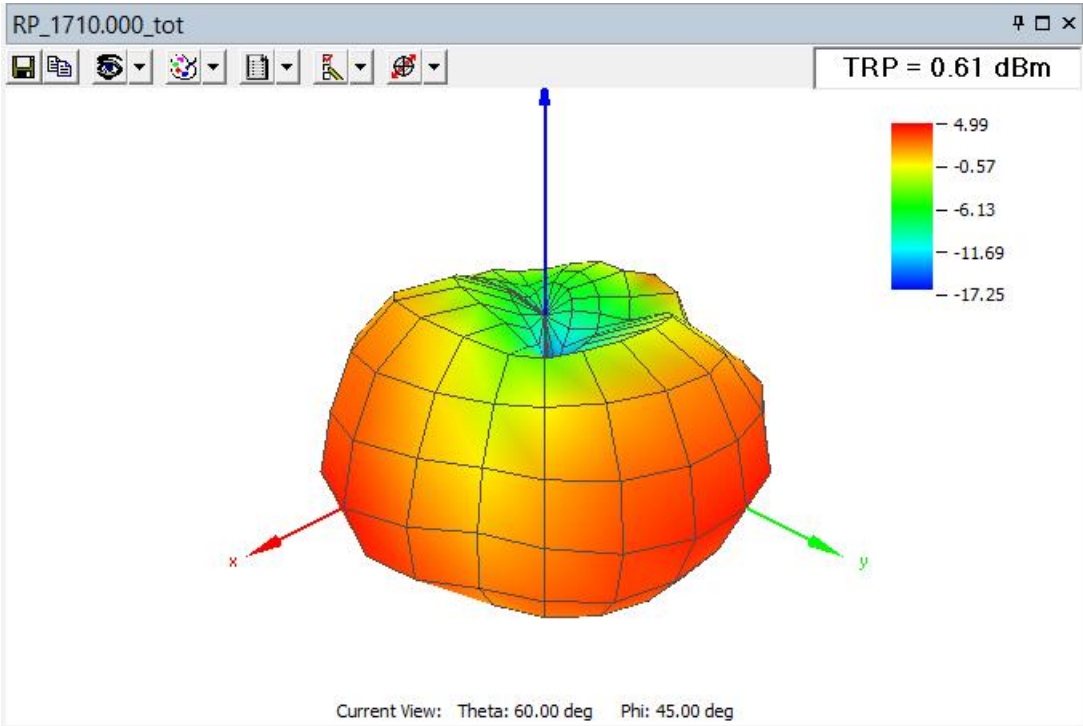


Figure 5. Measured Mid Band 3D Radiation Pattern

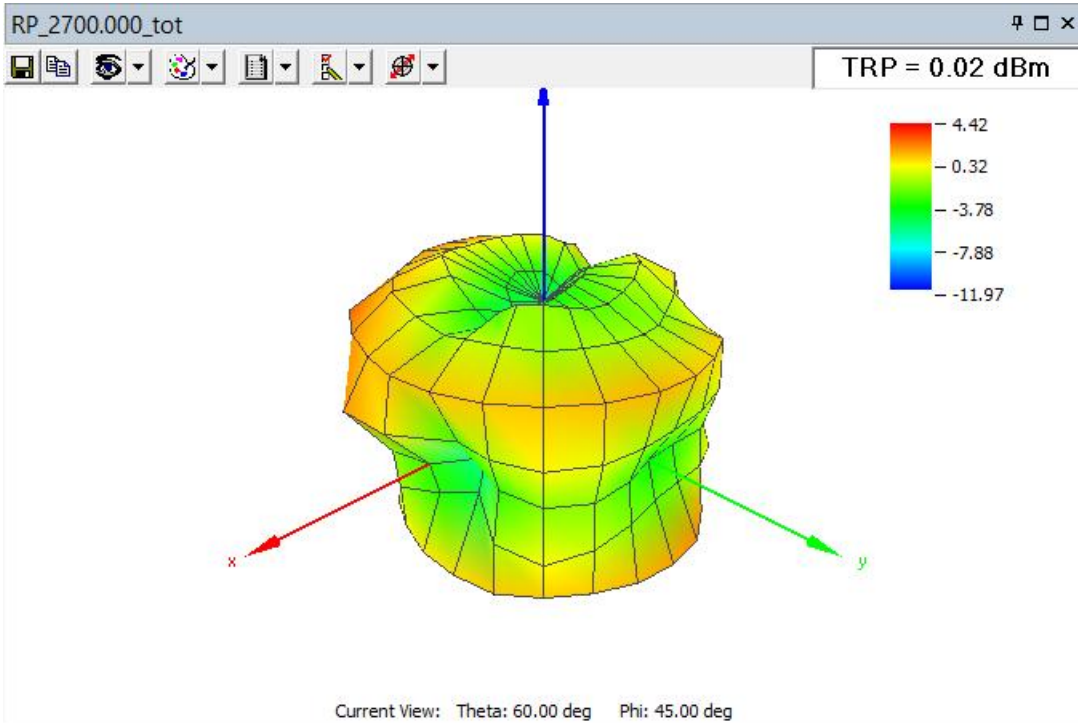


Figure 6. Measured High Band 3D Radiation Pattern

Contact Information

Email: Sales@parsec-t.com

Web: www.parsec-t.com

Phone: 972-804-4600

Mail: Parsec Technologies, Inc.
820 Jupiter Rd.
Plano, Texas 75074

Ordering Information

Part Number	PTA-WM-2XLTE-003	3 foot long cables
	PTA-WM-2XLTE-006	6 foot long cables
	PTA-WM-2XLTE-010	10 foot long cables
	PTA-WM-2XLTE-015	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.