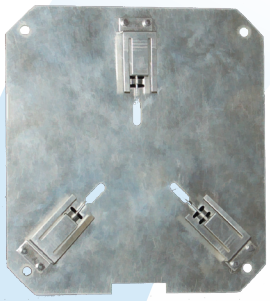
Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

SM24513PUFL

2.4-2.5 / 5.1-5.9 GHz Dual-Band Linear Triangular MIMO Internal Antenna



DUAL-BAND INTERNAL MIMO DIRECTIONAL ANTENNA

Laird Technologies' SM24513PUFL is a dual-band, directional internal panel antenna for use in 802.11n MIMO applications. Each of the three MIMO antenna elements can be connected internally to a radio for use as a WLAN Access Point. The radiation patterns are uniform and symmetrical, providing high-level signal density into defined coverage zones. This antenna will greatly enhance the performance of 802.11n systems. The dual-band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.1-5.9 GHz bands.

FEATURES ✓RoHS

- Low profile
- Polarization diversity
- Designed specifically to support 802.11n networks
- Various connector and board configurations options available
- Performance optimized using Laird Technologies' proprietary RF optimization tools

MARKETS

- Hospital
- Campus
- Research institute
- Transport terminals
- Public safety wireless systems

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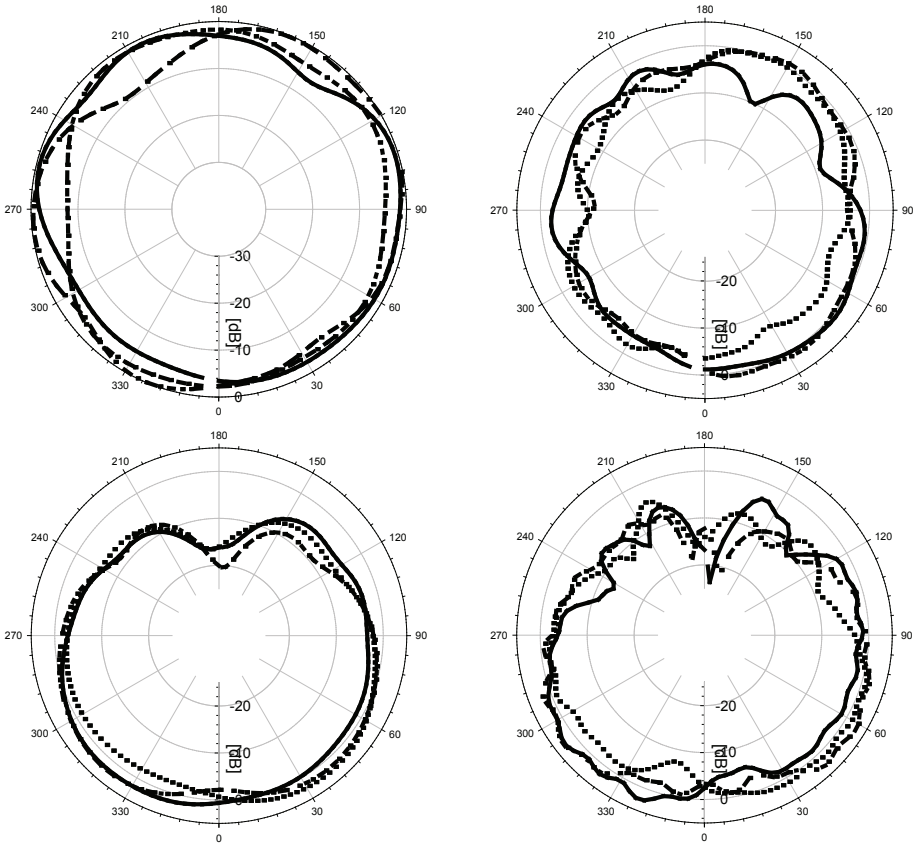
SM24513PUFL Series

2.4-2.5 / 5.1-5.9 GHz Dual-Band Linear Triangular MIMO Internal Antenna

ANTENNA PATTERNS



3 X 3 Element Dual-Band Panel Antenna

SPECIFICATIONS	
Part Number:	SM24513PUFL
Frequency:	2.4-2.5 GHz, 5.15-5.875 GHz
Gain:	2 dBi @ 2.4 GHz, 4 dBi @ 5.15 GHz
Polarization:	Linear, triangular MIMO configuration
3 dB Beamwidth-Azimuth:	Omnidirectional
3 dB Beamwidth-Elevation:	120° Typical
Nominal Impedance:	50 Ω
VSWR:	2.0:1 (max)
Cable Length (mm):	120
RF Connector:	U.FL (3x)
Power Rating:	1 W
Dimensions (mm):	5.12”x 4.7”x .275” (130 x 120 x .36)
Weight:	.065 kg
Operational Temperature:	0°C to +55°C
Mount Style:	Internal
RoHS:	Compliant

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