



The world's first Flexible PIFA antenna for Wi-Fi MIMO applications (patent pending). The FlexPIFA MIMO is specifically designed for 802.11 a/b/g/n as well as 802.11ac Wi-Fi modules that use MIMO or Wi-Fi Diversity. The flexible PIFA design provides for consistent performance across a broad array of enclosures and enables adhering the antenna to flat and curved surfaces. The FlexPIFA MIMO drastically simplifies the size, cost and technical requirements for implementing the two antennas required for 802.11 MIMO radio applications as the proper orientation and spacing between the two integrated antenna elements is already optimized for MIMO radio performance, giving you the best possible range and throughput.

FEATURES AND BENEFITS

- Two Integrated 2.4/5 GHz dual band elements specifically designed for 802.11 MIMO applications.
- Laird's Patented Flexible PIFA Antenna structure allows for the use of the antenna on flat and curved surfaces
- Compact design versus the complexity of two separate antennas.
- Low ECC Performance for best in class throughput and range performance.
- Simple Installation with optimized antenna orientation and spacing

ELECTRICAL SPECIFICATIONS		
Operating Frequency (MHz)	2400 - 2480	4900 - 5900
Peak Gain, dBi (Typ)	1.7	2.5
Peak Gain, dBi (Max)	2.0	3.5
VSWR Port 1 (Typ)	<2.3:1	<2.8:1
VSWR Port 2 (Typ)	<2.3:1	<2.8:1
VSWR (Max)	<2.5:1	<3.0:1
Isolation, dB (Typ)	>19	>19
Max Gain ±30 above Horizon (dBi)	N/A	2.2
Nominal Impedance	50 Ohms	
Max Power @ 25°C	10 Watts	
Polarization	Linear H/V for each radiator	
Azimuth Beam Width	Omnidirectional	

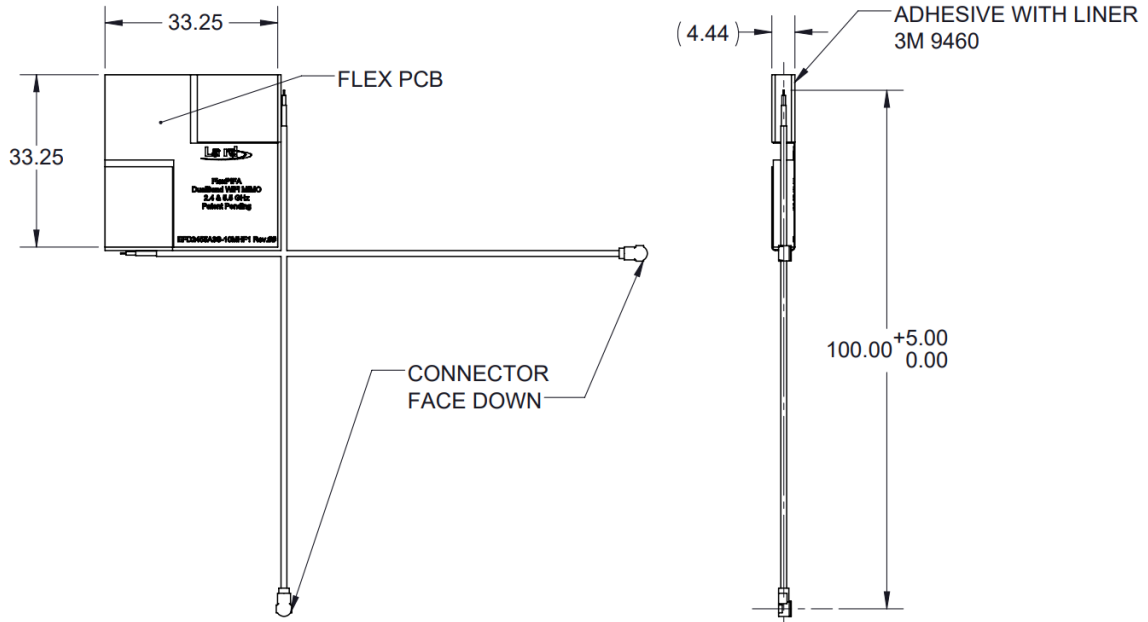
MECHANICAL SPECIFICATIONS	
Dimensions (mm)	33.25 x 33.25 x 4.44
Weight	2.5 grams

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature (°C)	-40°C to +85°C
Storage Temperature (°C)	-40°C to +85°C
Material Substance Compliance	RoHS Compliant

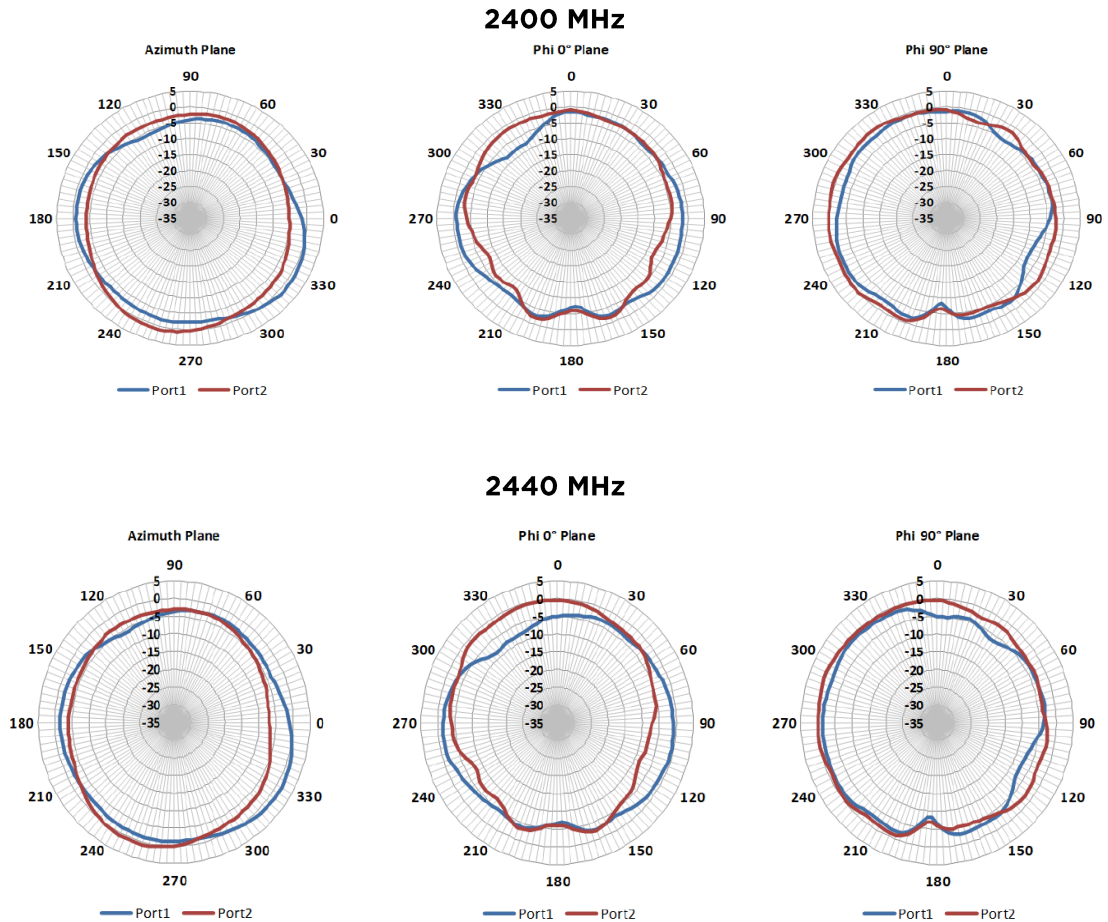
CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	PACKAGING
EFD2455A3S-10MHF1	100mm	MHF4	

MECHANICAL DRAWING

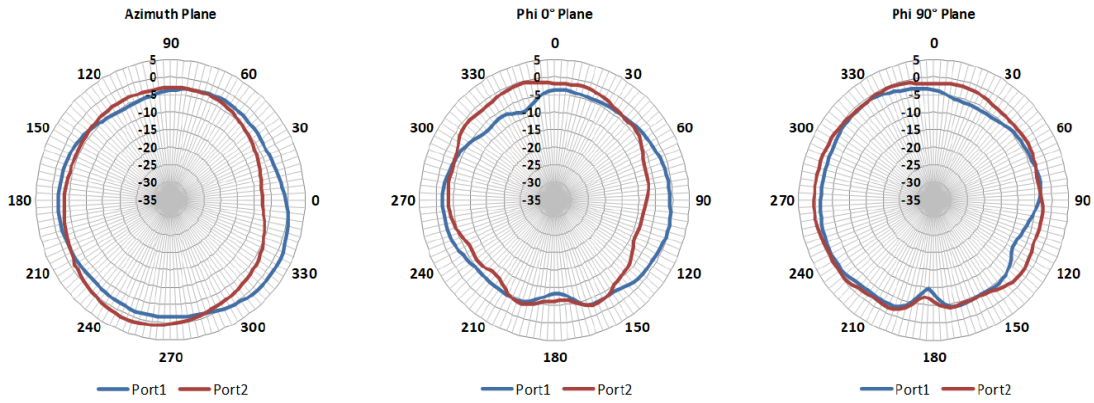


RADIATION PATTERNS

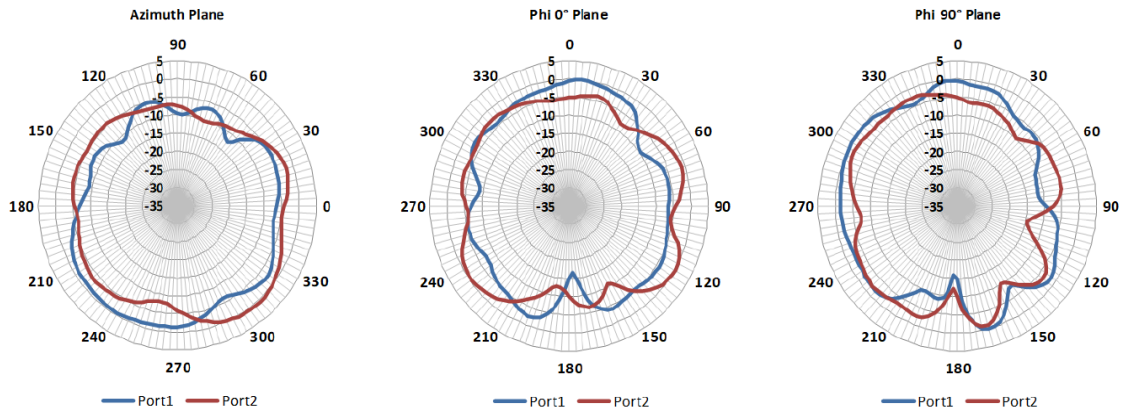


RADIATION PATTERNS (CONTINUED)

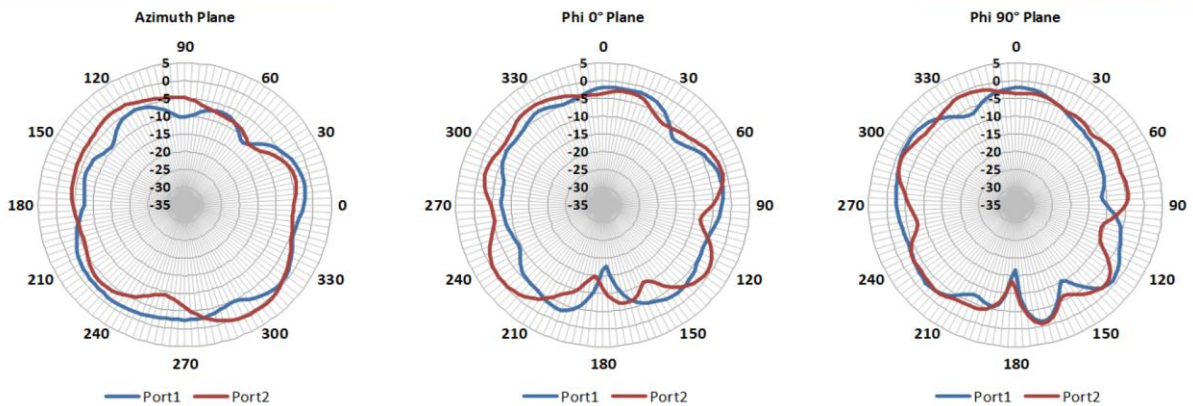
2480 MHz



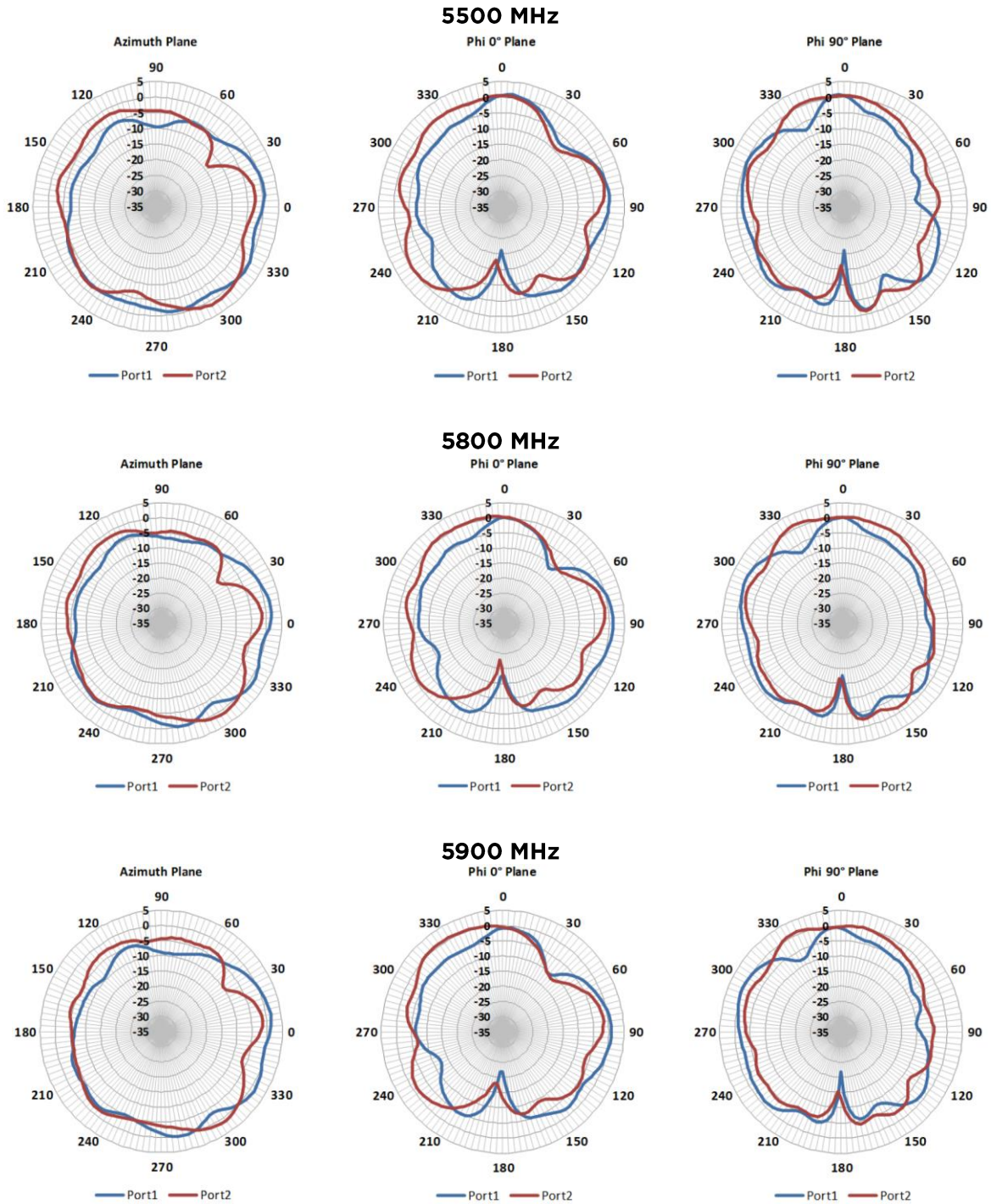
4900 MHz



5150 MHz



RADIATION PATTERNS (CONTINUED)



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