



Laird Connectivity is unmatched in offering multiple pre-certified antenna options for each wireless module. Pairing Laird Connectivity's embedded modules with a pre-certified RF antenna saves both certification time and costs. The new, exclusive, flexible antenna solutions from Laird Connectivity, provide unmatched flexibility to help you solve your real-world design challenges.

**ELECTRICAL SPECIFICATIONS**

Model Name	Delete
Number of Ports	Merge
Operating Frequency (MHz)	2400–2500
VSWR – Max	≤2.5:1
Peak Gain (dBi)	+2.0 dBi
Nominal Impedance (Ohms)	50
Polarization	Linear vertical

**MECHANICAL SPECIFICATIONS**

Dimensions – mm (inches)	105 x 10 (4.13 x 0.39)
Weight – g (lbs.)	13 (0.46)
Antenna Color	Black

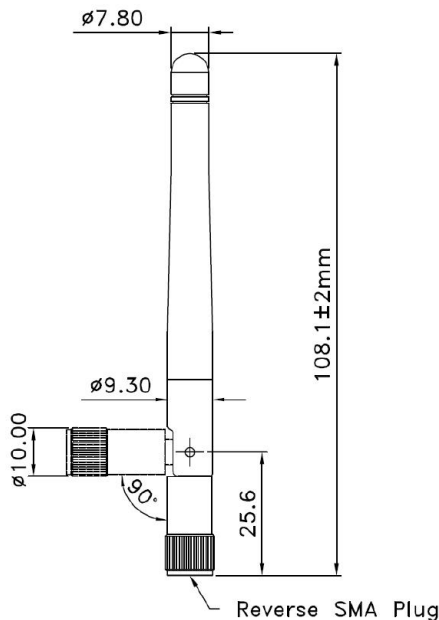
**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature – °C (°F)	-20 to +65°C (-4 to +149°F)
UL Rating	UL 94HB
Ingress Protection Rating	IP67

**CONFIGURATION**

PART NUMBER	DESCRIPTION
001-0001	2.4 GHz dipole antenna for reverse polarity SMA connector
080-0001	U.FL to reverse polarity SMA cable, 105 mm

**MECHANICAL DRAWING**



TYPICAL ANTENNA REFLECTION PERFORMANCE

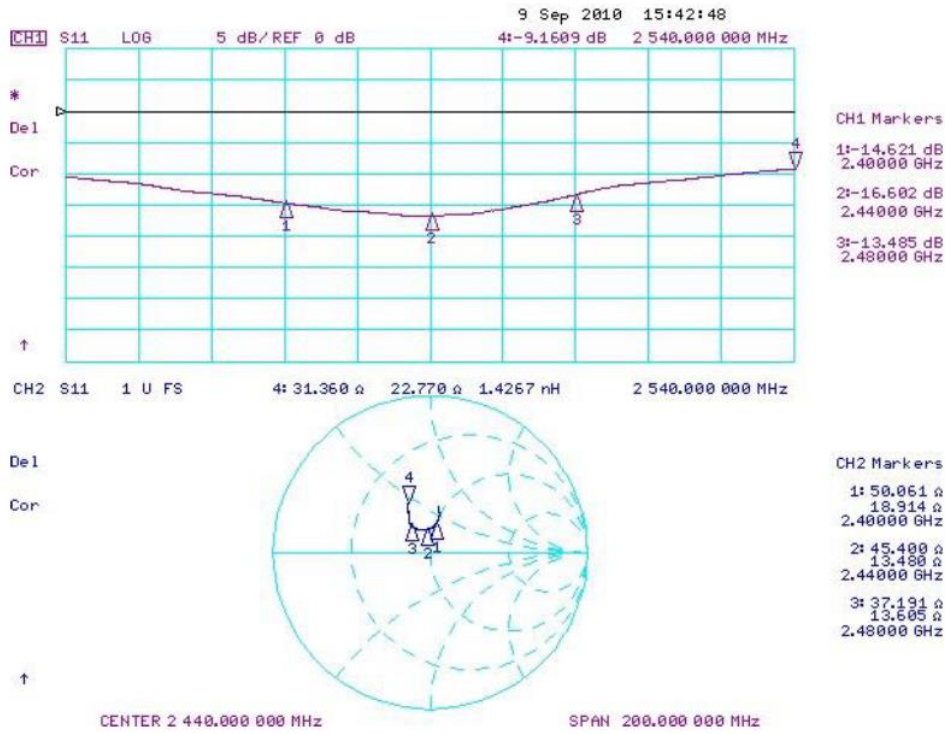


Figure 1: Reflection parameters for extended configuration (S11)

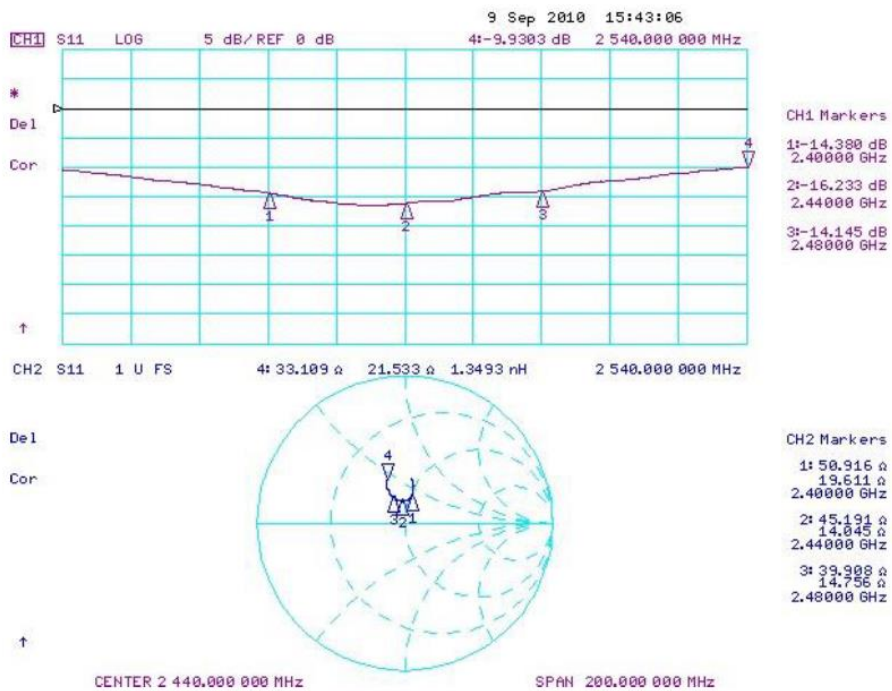
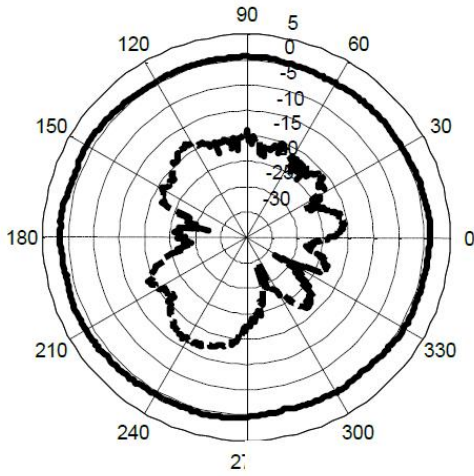


Figure 2: Reflection parameters for folded configuration (S11)

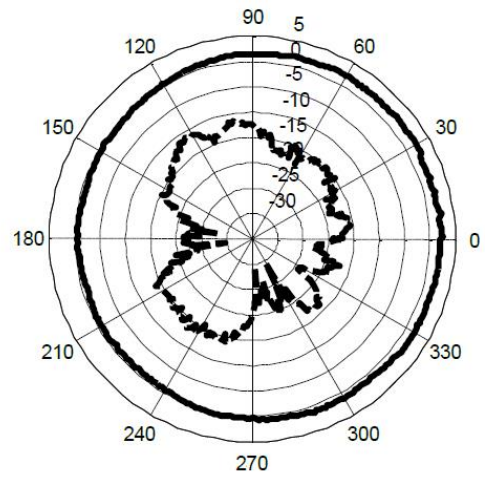
RADIATION PATTERNS

Antenna Straight 2405 MHz



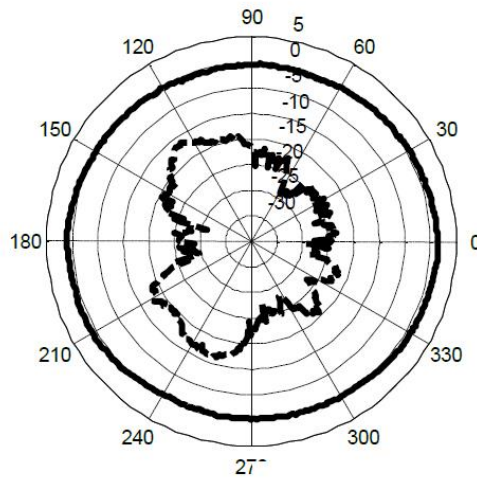
\_\_\_\_ Vertical Polarization Gain (dBi)  
----- Horizontal Polarization Gain (dBi) min: -29.7 max: -11.2 avg: -17.7

Antenna Straight 2440 MHz



\_\_\_\_ Vertical Polarization Gain (dBi)  
----- Horizontal Polarization Gain (dBi) min: -29.8 max: -11.2 avg: -17.5

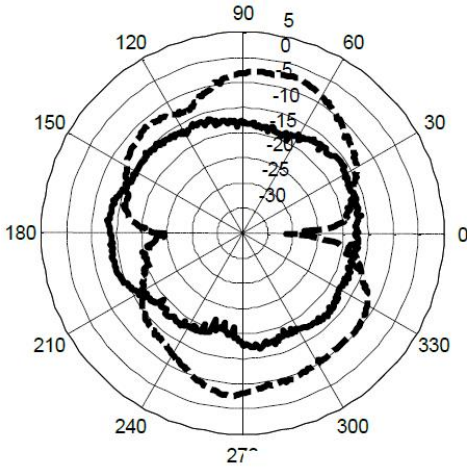
Antenna Straight 2480 MHz



\_\_\_\_ Vertical Polarization Gain (dBi)  
----- Horizontal Polarization Gain (dBi) min: -26.0 max: -11.1 avg: -17.7

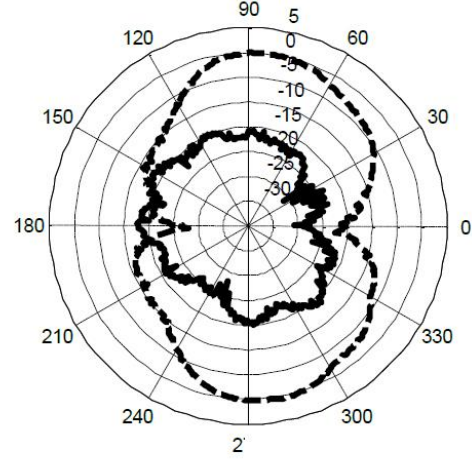
RADIATION PATTERNS

Antenna Bent 2405



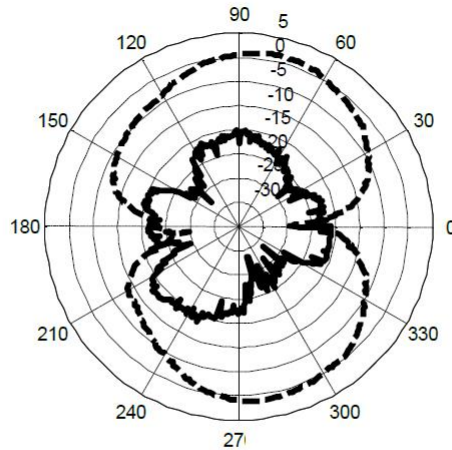
\_\_\_ Vertical Polarization Gain (dBi)  
 ----- Horizontal Polarization Gain (dBi) min: -26.2 max: -2.1 avg: -8.6

Antenna Bent 2440 MHz



\_\_\_ Vertical Polarization Gain (dBi)  
 ----- Horizontal Polarization Gain (dBi) min: -22.8 max: +0.6 avg: -7.1

Antenna Bent 2480



\_\_\_ Vertical Polarization Gain (dBi)  
 ----- Horizontal Polarization Gain (dBi) min: -24.7 max: +1.4 avg: -5.7



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