

## 2.4 GHz – 2.5 GHz Dipole 2dBi Antenna for Reverse Polarity SMA



### ORDERING INFORMATION

Order Number	Description
<b>001-0001</b>	2.4 GHz Dipole Antenna for Reverse Polarity SMA Connector.
<b>080-0001</b>	U.FL to Reverse Polarity SMA Cable, 105mm
Manufacturer	LS Research, LLC

Table 1 Orderable Part Numbers

### SPECIFICATIONS

Specification	Value
Peak Gain	+2 dBi
Impedance	50 ohms, Nominal
Type	Dipole
Polarization	Linear Vertical
VSWR	≤2.5 : 1, Maximum
Frequency	2400-2500MHz
Weight	13g
Size	105x10 mm
Antenna Color	Black
Operating Temp	-20°C to +65°C
UL Rating	UL 94HB

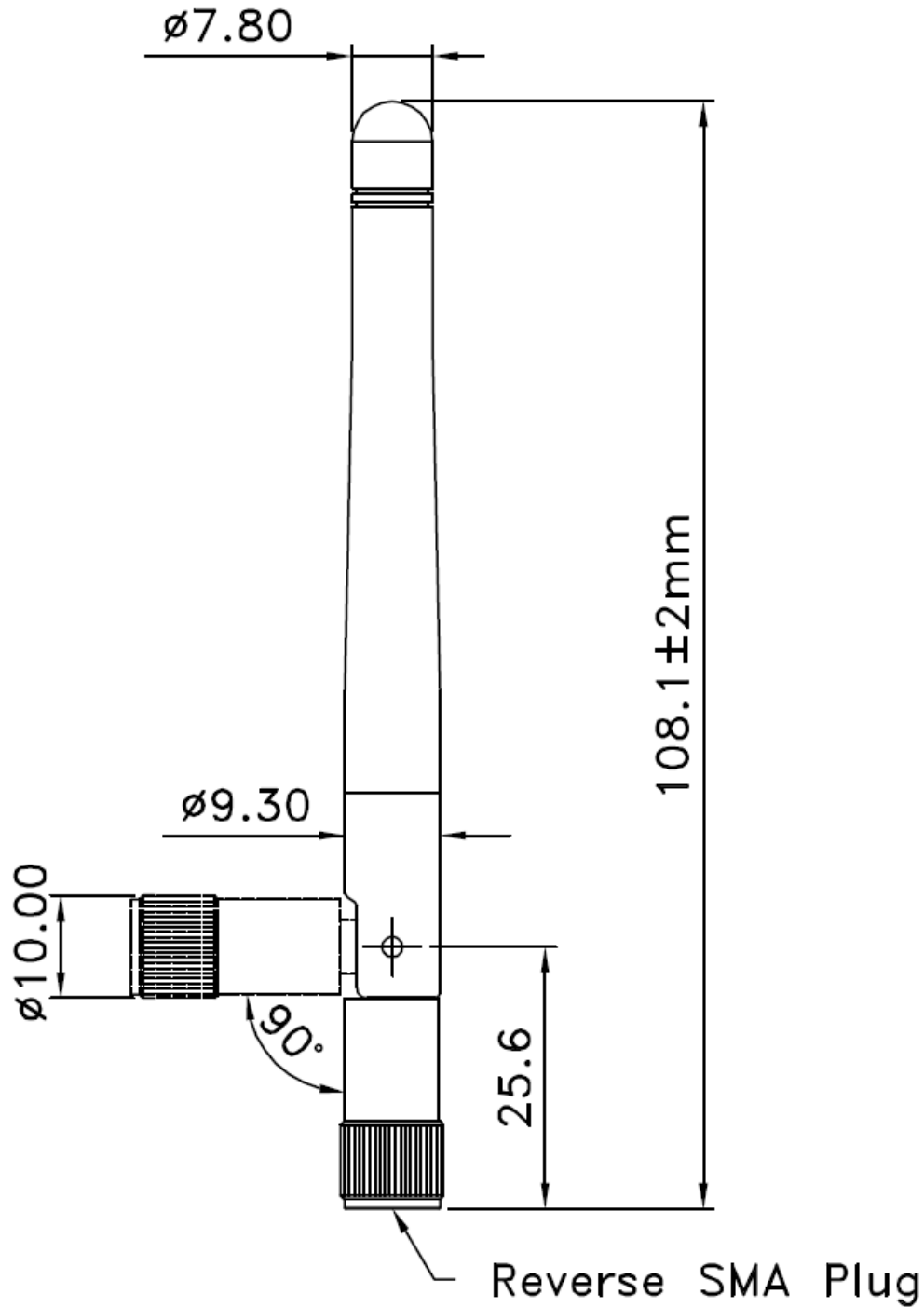
Table 2 Specifications

### Antenna Gain

Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain/dBi	2.00	1.90	1.76	1.55	1.77	1.88	1.82	1.67	1.62	1.55	1.4

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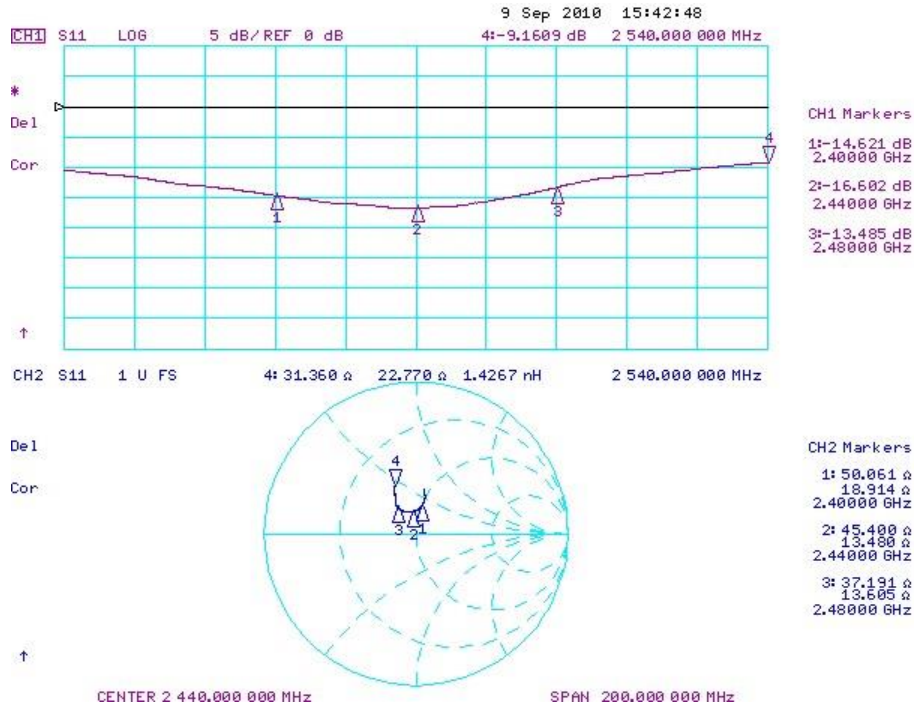
**PHYSICAL DIMENSIONS (MM)**



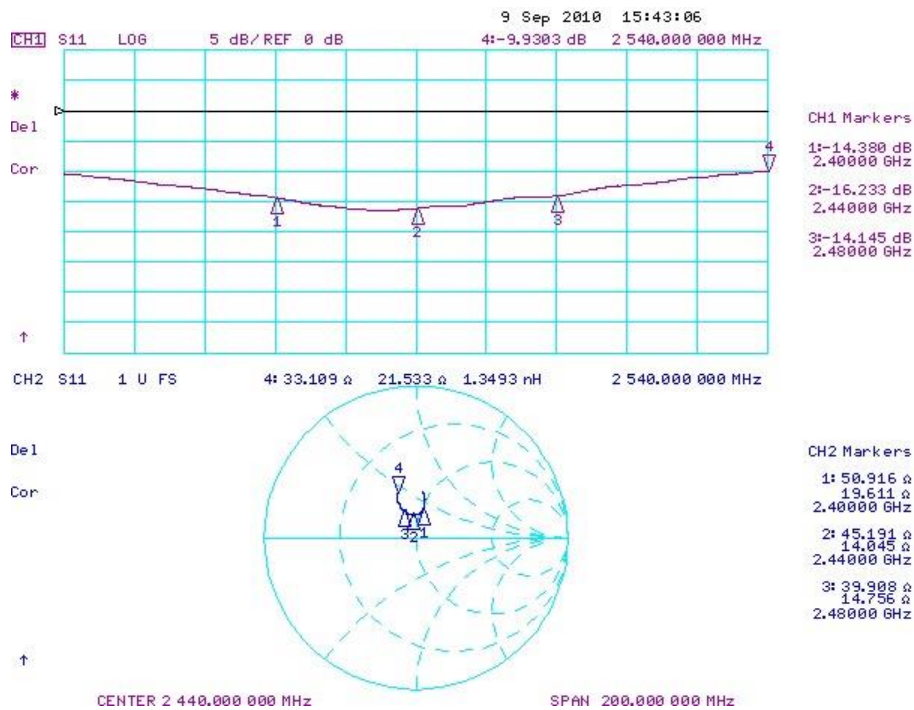
**Figure 1 Physical Dimensions**

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## TYPICAL ANTENNA REFLECTION PERFORMANCE



**Figure 2 Reflection Parameters for Extended Configuration (S11)**

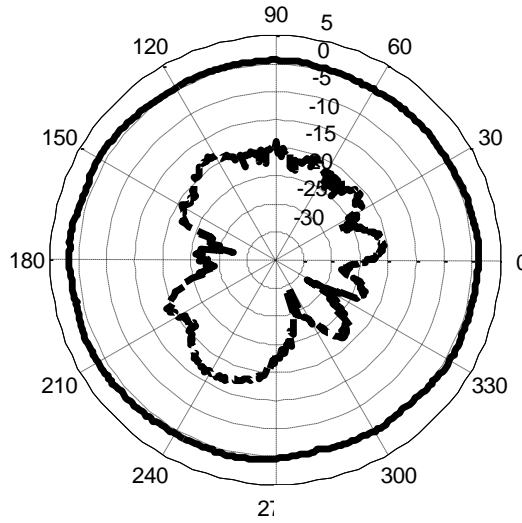


**Figure 3 Reflection Parameters for Folded Configuration (S11)**

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## TYPICAL ANTENNA RADIATION PERFORMANCE

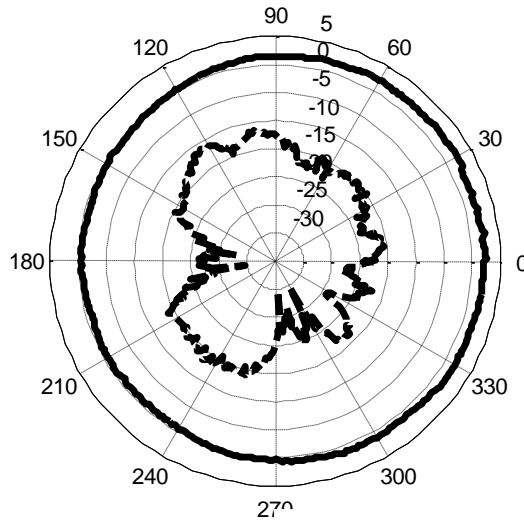
### LSR ANTENNA STRAIGHT 2405 MHz



\_\_\_\_ Vertical Polarization Gain (dBi)

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

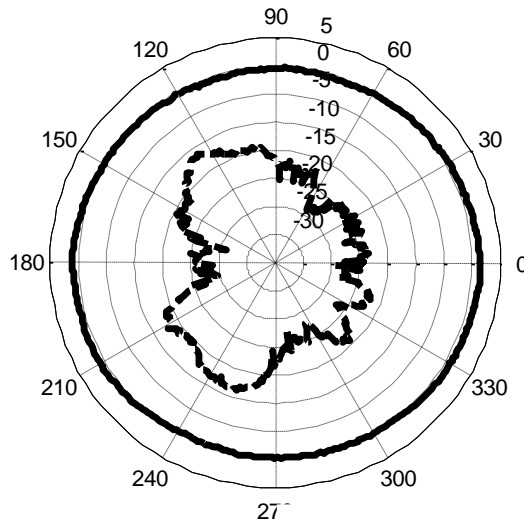
**LSR ANTENNA STRAIGHT 2440 MHz**



\_\_\_\_ Vertical Polarization Gain (dBi)

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

**LSR ANTENNA STRAIGHT 2480 MHz**

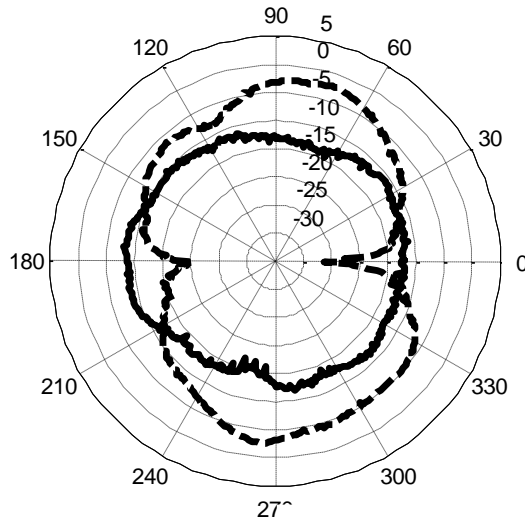


\_\_\_\_ Vertical Polarization Gain (dBi)

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

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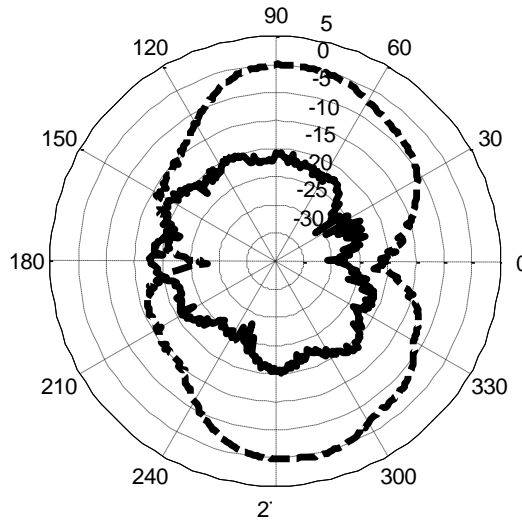
## LSR ANTENNA BENT 2405 MHz



\_\_\_\_ Vertical Polarization Gain (dBi)

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

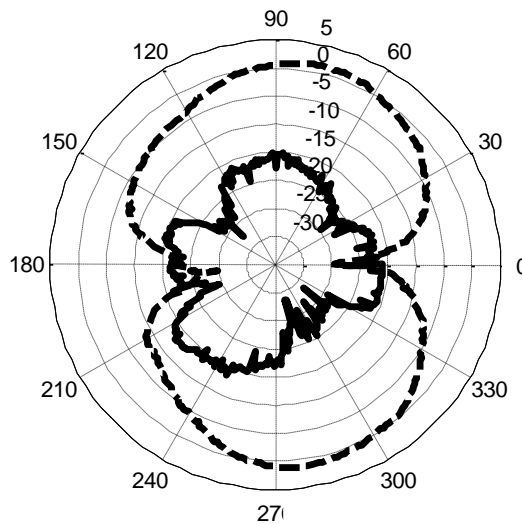
**LSR ANTENNA BENT 2440 MHz**



\_\_\_\_ Vertical Polarization Gain (dBi)

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

**LSR ANTENNA BENT 2480 MHz**



\_\_\_\_ Vertical Polarization Gain (dBi)

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

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