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# ACA-1SSRPP-2400

## Data Sheet



1" Antenna with Straight SMA Reverse Polarity Plug for 2.4 GHz

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Document Number: ADS-CA1SSRPP-2400-1xx

Release Date: June 3, 2014

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## About this Data Sheet

This document provides information about the ACA-1SSRPP-2400 2.4GHz antenna.

## 1 Description

The ACA-1SSRPP-2400 is a 2.4GHz antenna approximately 1" in length ideally suited for Wi-Fi communications.

The antenna is straight in-line with the SMA Reverse Polarity Plug (RPP) connector and stands 28.40mm tall (including SMA) with a diameter of 7.56mm.

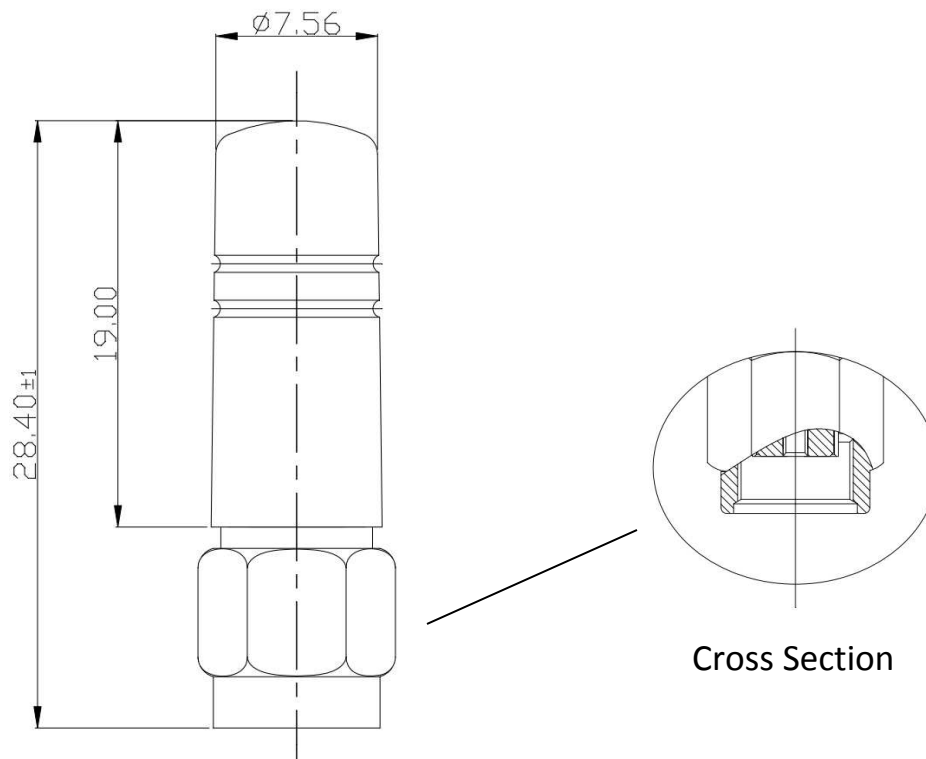
The antenna is ideal for Wi-Fi applications in the 2400 – 2500 MHz band of operation.

## 2 Specifications

Table 1. ACA-1SSRPP-2400 Specifications

Parameter	Value	Tolerance	Unit
Frequency Band	2400 - 2500		MHz
Total Height (including SMA connector)	28.40	$\pm 0.25$	mm
Height (excluding SMA connector)	19.00	$\pm 0.25$	mm
Diameter	7.56	$\pm 0.25$	mm
Connector	Straight SMA RPP		
Antenna Cover Material	Polyurethane		
Color	Black		

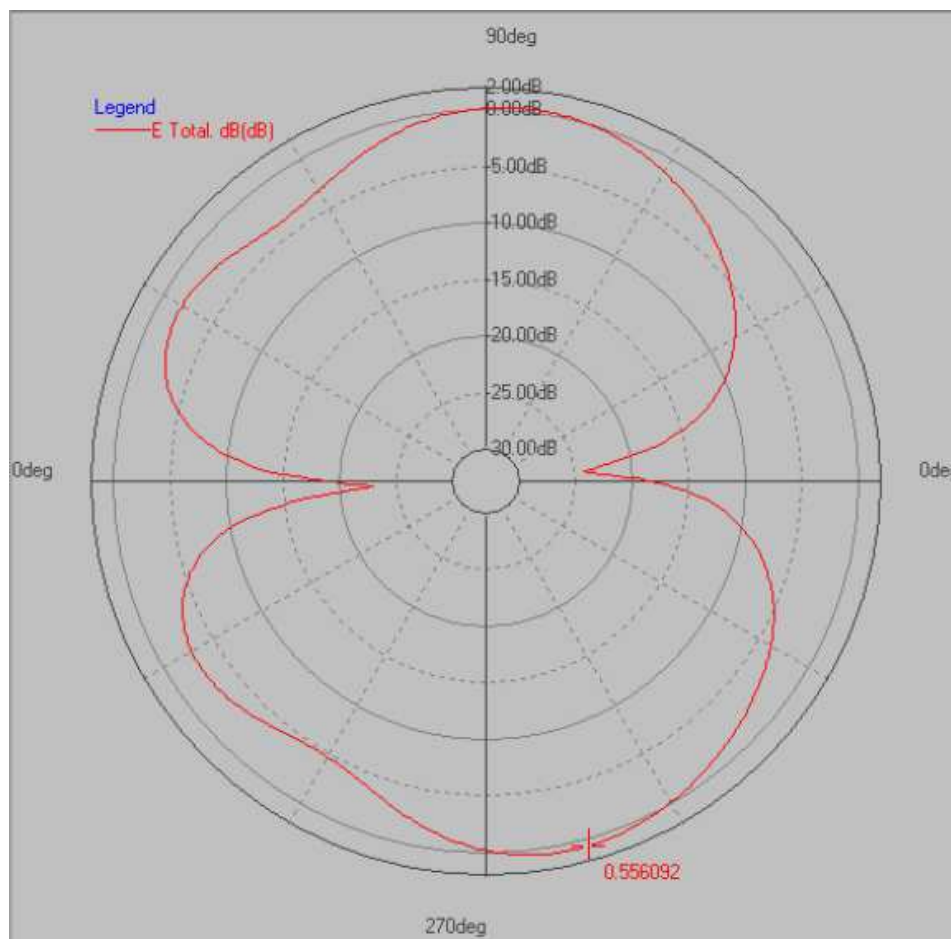
## 3 Mechanical



## 4 Radiation Pattern

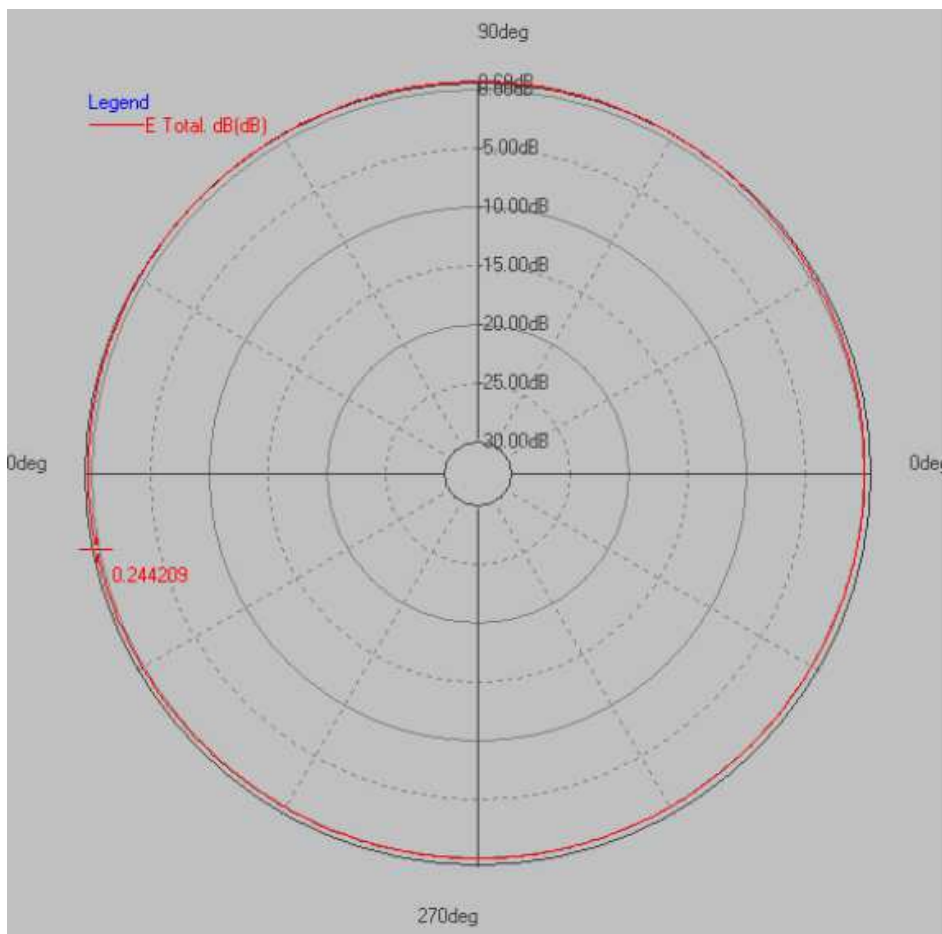
### 4.1 E-Plane

Parameter	Value	Unit
Pattern Field	E-Plane	
Frequency	2450	MHz
Average Gain	-3.5	dB
Maximum Gain @ 286 degrees	0.6	dB
Minimum Gain @ 5 degrees	-24.4	dB

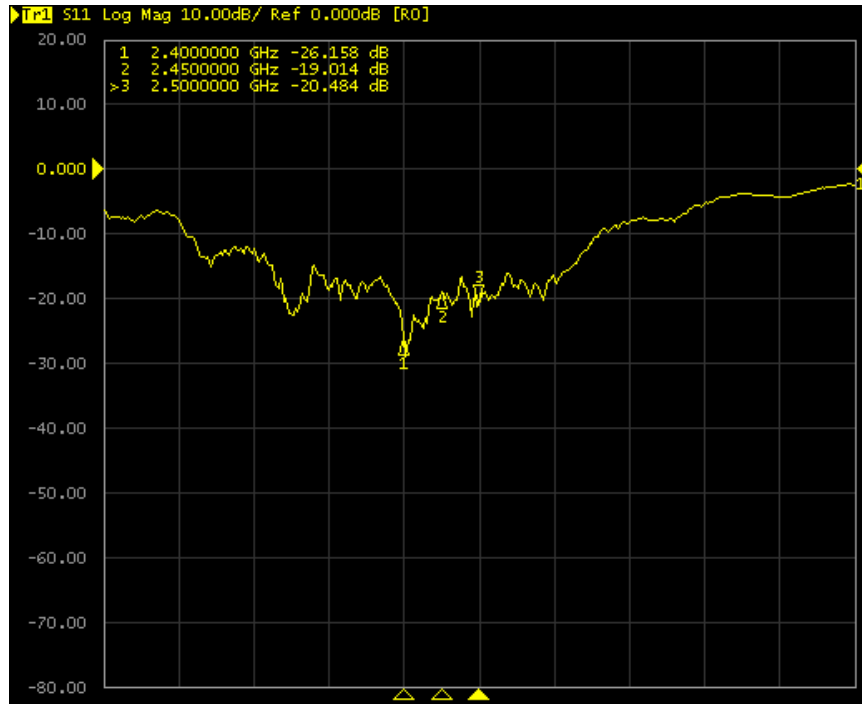


## 4.2 H-Plane

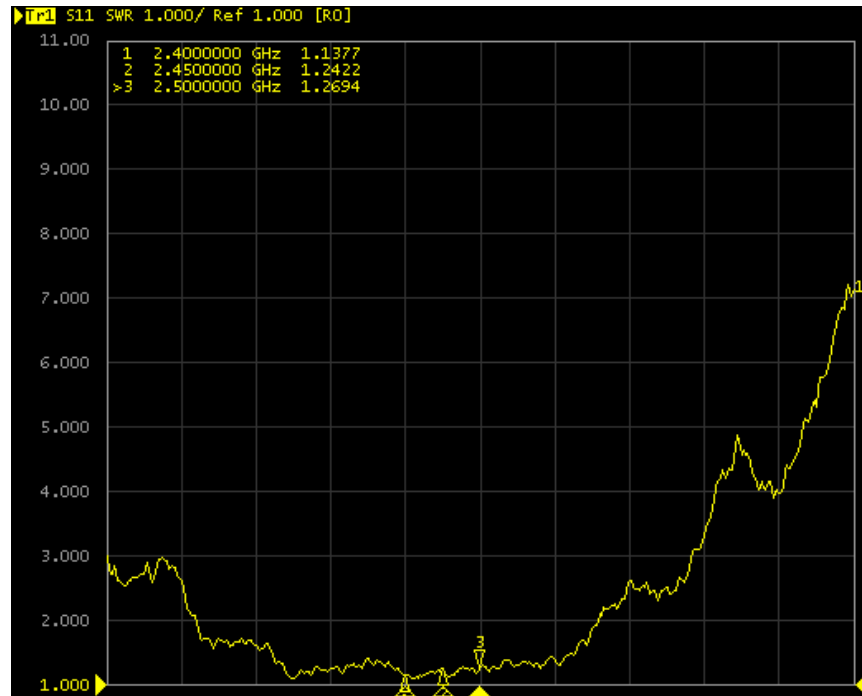
Parameter	Value	Unit
Pattern Field	H-Plane	
Frequency	2450	MHz
Average Gain	0.22	dB
Maximum Gain @ 93 degrees	0.6	dB
Minimum Gain @ 290 degrees	-0.1	dB



### 4.3 S11 Plot



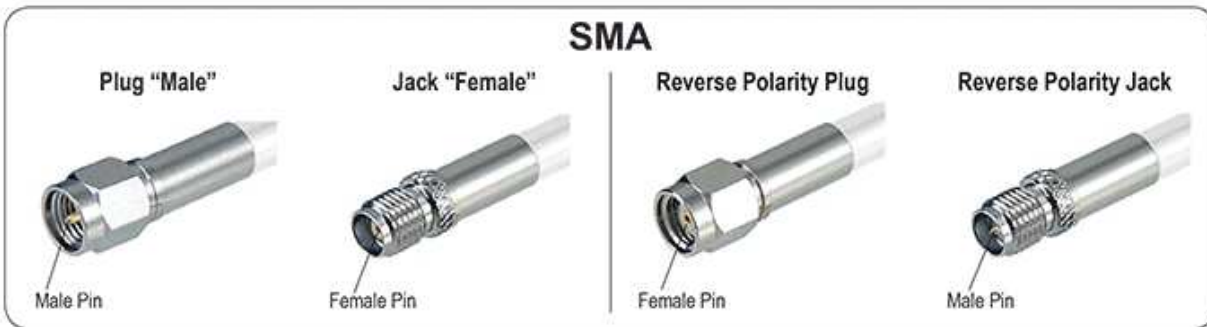
### 4.4 VSWR Plot



## Appendix A – SMA Connector Types

To keep everyone guessing, the industry offers four different types of SMA connectors depicted in the figure below.

The ACA-1SSRPP-2400 comes with a Straight SMA Reverse Polarity Plug connector with a female center pin as depicted by the large arrow underneath the following picture.



The SMA connector on the ACA-1SSRPP-2400 antenna looks like this.



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ADS-CA1SSRPP-2400-100R • Preliminary Data Sheet  
June 3, 2014

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