

6 RS9116 AA1 Module Antenna Specifications

6.1 Overview

The RS9116 Single band modules have been certified for FCC, IC, ETSI/CE, MIC, and UKCA with Silicon Labs' Single-band PCB antenna. The sections which follow list down the performance specifications of the PCB antenna.

6.2 PCB Antenna Performance Specifications

6.2.1 Return Loss Characteristic of the Antenna

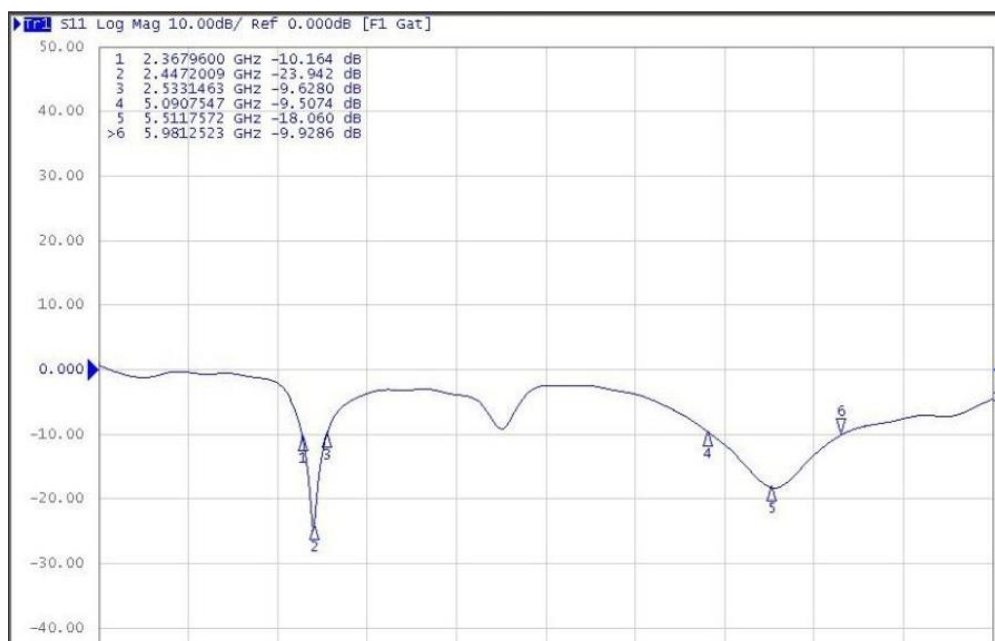


Figure 24. Return Loss Characteristic of the Antenna

6.2.2 Module Reference Orientation



Figure 25. Module Reference Orientation

6.2.3 Gain Plots

6.2.3.1 XY at 2.43 GHz

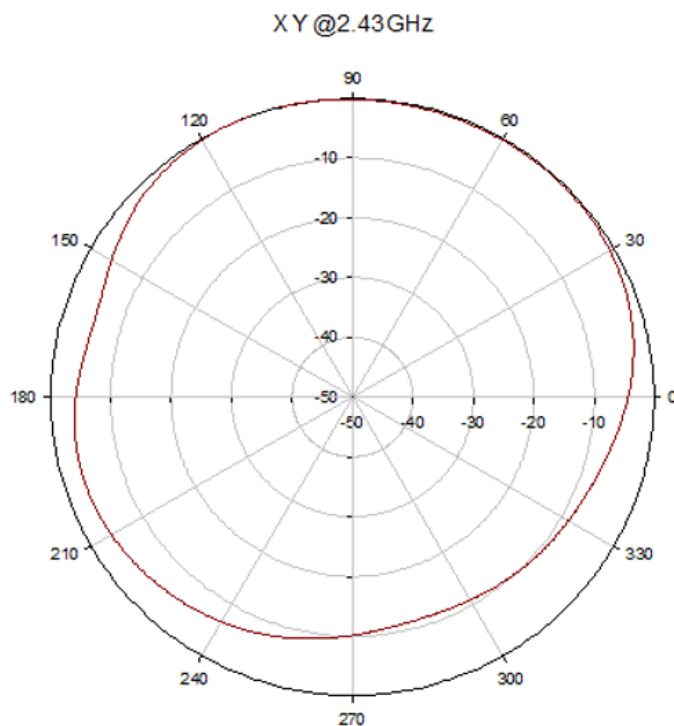


Figure 26. 2D Gain Plot for XY at 2.43 GHz

6.2.3.2 YZ at 2.43 GHz

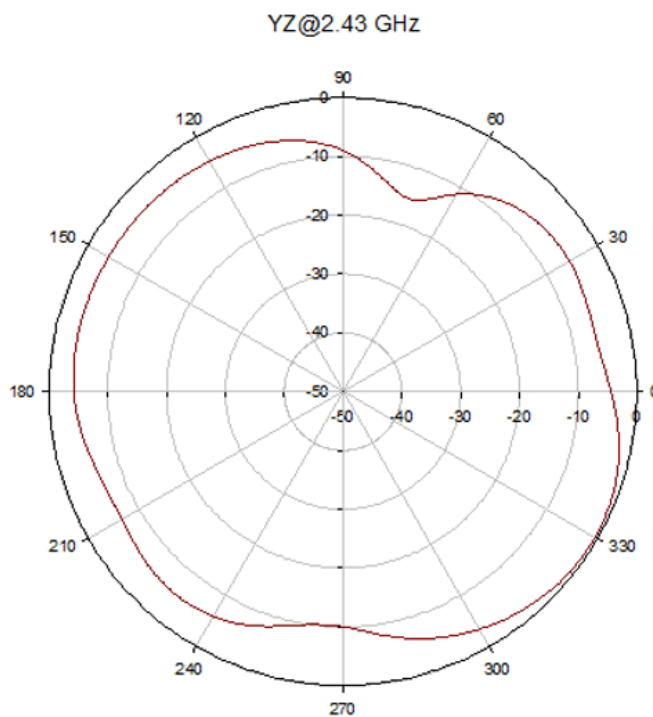


Figure 27. 2D Gain Plot for YZ at 2.43 GHz

6.2.3.3 ZX at 2.43 GHz

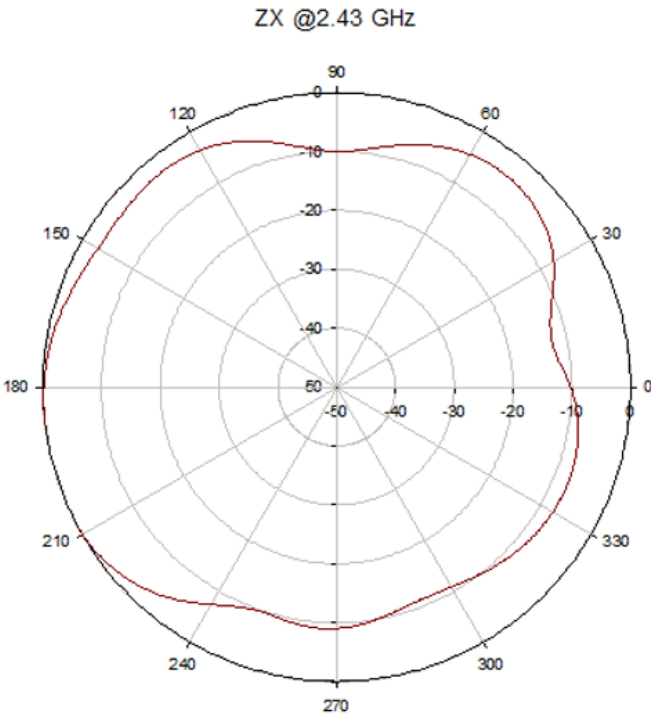


Figure 28. 2D Gain Plot for ZX at 2.43 GHz

6.3 Antenna Parameters

Parameter	@ 2.43 GHz	@ 5.5 GHz
Peak Gain	0.99 dBi	4.42 dBi
Average Efficiency	87 %	85 %

Table 39. Antenna Parameters