
Project: doctorgram Stethoscope DES-I
DHF: DHF1xxxx
Report #: AS10001 Rev. A
Title: Antenna Specifications for doctorgram stethoscope DES-I
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Date Prepared: March 2, 2020

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Abstract: This Antenna Specification details the defined integral antenna specification of the doctorgram Stethoscope DES-I.

Approvals:

This document has been routed for approvals via xxx.

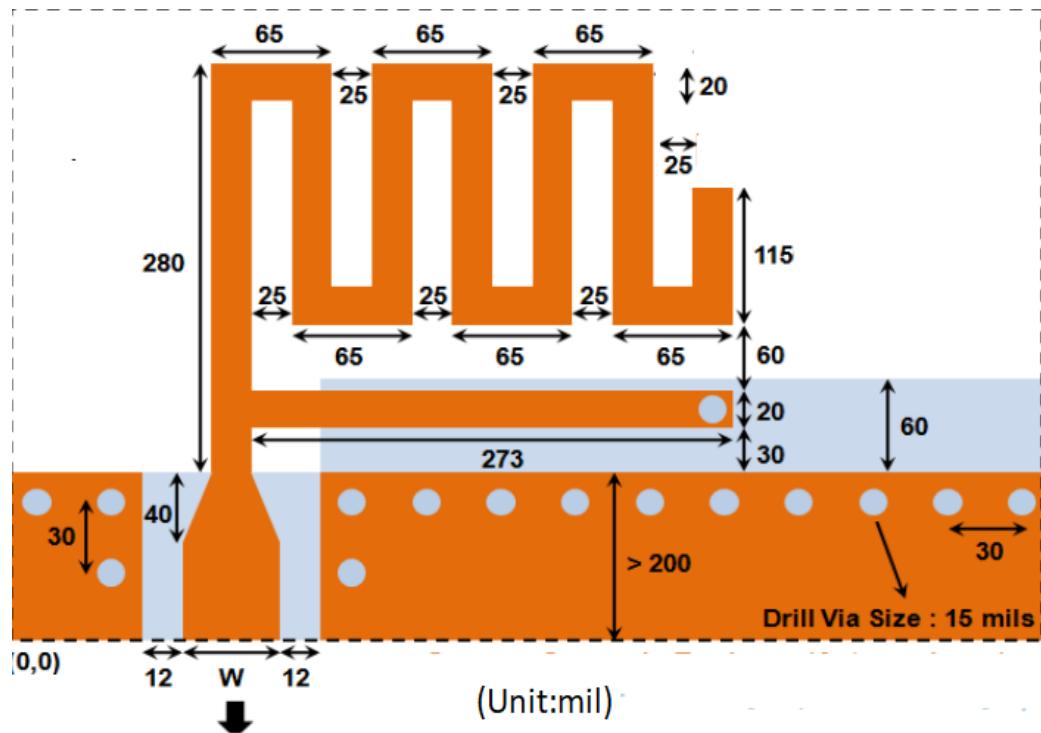
1.0 OBJECTIVE

- 1.1. The objective of this document is to provide technical details of the integral antenna of doctorgram stethoscope DES-I and the translation of these needs into quantitative design requirements.

2.0 ANTENNA SPECIFICATION

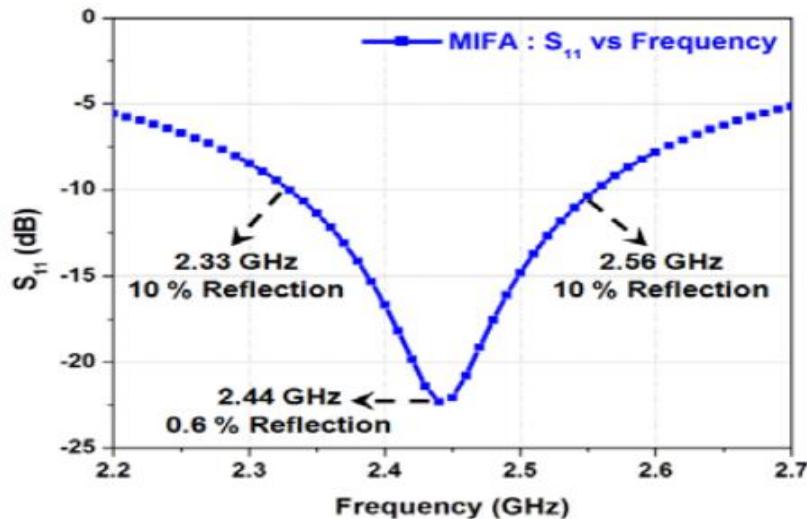
- 2.1 Antenna: Meandered Inverted-F Antenna (MIFA)
- 2.2 Designer: Cypress Semiconductor Corporation
- 2.3 Antenna Gain: 0 dbi
- 2.4 Frequency Range: 2.4 GHz – 2.483 GHz
- 2.5 Connect Type: Direct
- 2.6 Location of measurement: Cypress Semiconductor Corporation

3.0 DRAWING



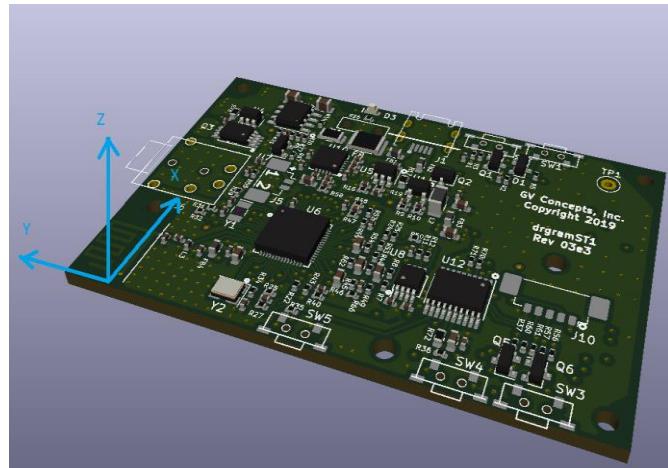
4.0 ANTENNA RADIATION PATTERN

4.1 Return loss S_{11}



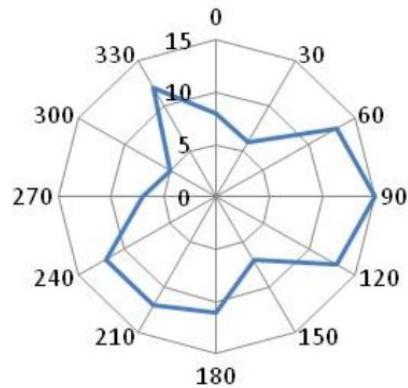
Antenna has a bandwidth ($S_{11} \leq -10$ dB) of 230 MHz around 2.44GHz.

4.2 PCB image with coodinary

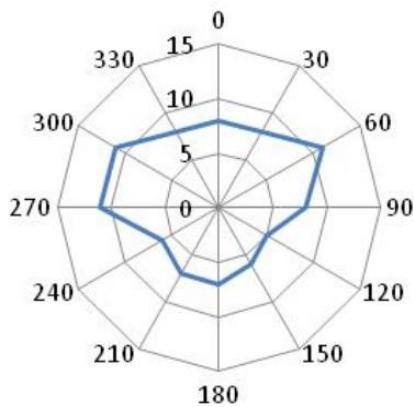


4.3 Antenna Radiation Pattern

About X axis



About Y axis



About Z axis

