



DIY2 revision F

Printed Wi-Fi antenna datasheet

CONFIDENTIAL AND PROPRIETARY DATA

Copyright 2023 Vayyar Imaging Ltd. All rights reserved.

This document is the property of Vayyar and all materials and information contained herein are the confidential and proprietary information of Vayyar and are protected by international copyright laws. The copyrights are owned by Vayyar or the original creator of the material. The materials and information contained herein are provided to you for internal information purposes only, and no portion of the materials and information herein may be copied, reproduced, distributed, transmitted, displayed, published, broadcasted or used in any way whatsoever directly or indirectly without the prior written consent of Vayyar or in any case of third party materials, without that third party's consent. This document shall be returned to Vayyar promptly upon request.

The materials and information contained herein are provided "AS IS" and Vayyar does not provide any warranties of any kind, whether express or implied, including but not limited to implied warranties of merchantability, fitness for a particular purpose, and non-infringement.

Introduction

This document provides a datasheet of printed Wi-Fi antenna (ANT20 as marked in the electrical schematic) which includes the RF parameters and graphs.

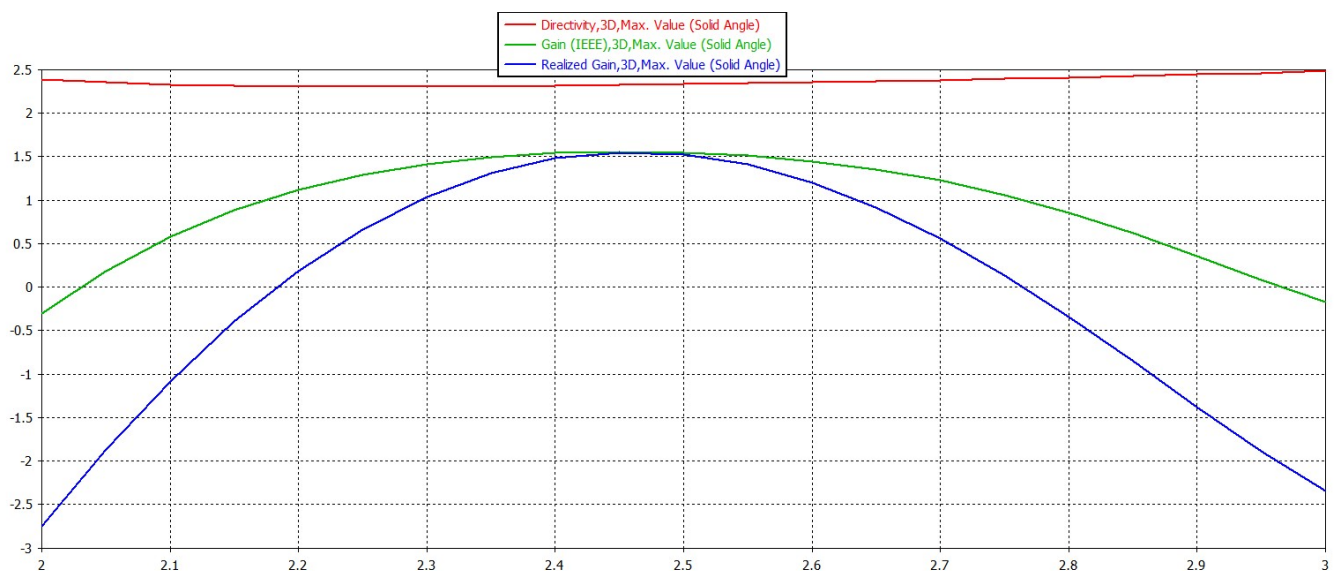
This antenna was designed and adapted to the product DIY2 rev. F

Antenna's gain simulation note :

The DIY2 Rev. F board is produced out of a common PCB material of FR-4 family, such that a 3D EM simulation involves also the losses intrinsic to the PCB material in the transmission line and in the antenna's cavity. To account for the PCB's dielectric-losses and isolate the physical gain of the antenna (accounting for directivity and VSWR, for example) the antenna was simulated within a low-loss stackup (by setting $\tan\delta \rightarrow 0$ and zeroing surface-roughness), while keeping the dielectric-coefficient $\epsilon_r = 4.3$ to have similar VSWR, matching and other antenna's properties.

Maximum Realized Gain vs. Frequency: 1.5dBi

Maximum Directivity: 2.3 dBi





Contact Us



26 Shabazi
Yehud 5623108
Israel



vayyar.com