

Application note

WiFi Antenna

Covered frequency range:
2.4GHz & 5GHz

Pulse Part Number: **SH0319E**

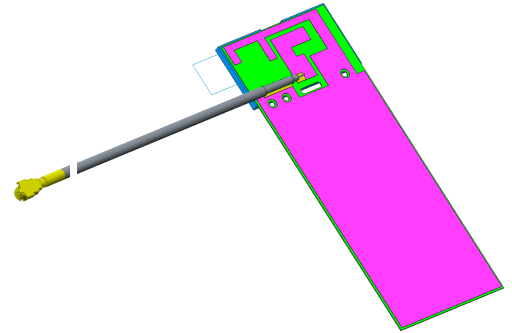
Table of Contents

<i>General Features and Applications.....</i>	<i>3</i>
<i>Antenna Dimensions and Coaxial Feed Cable</i>	<i>4</i>
<i>Test Setup for Electrical Measurements</i>	<i>5</i>
<i>Electrical Performance Test Results</i>	<i>7</i>
<i>Contact Information.....</i>	<i>9</i>

WiFi #1 Antenna

Features

- Coaxial Feed
- Single Feed Point
- Total size W x L x H (38mm x 15mm x 1.08mm)
- Antenna size W x L x H (8mm x 15mm x 1.08mm)
- Ground size W x L x H (30mm x 15mm x 1.08mm)
- Not include cable
- Lead Free Materials
- Lead Free Soldering Compatible
- RoHS Compliant
- Coaxial Cable Connector:
- I.PEX Connector MHF- Series Compatible



Applications

WiFi

Electrical specifications @ +25 °C

Note: Antenna's electrical characteristics depend on test board ground plane (GP) size, antenna positioning in relative to GP, antenna distance to test board and antenna surrounding mechanics.\

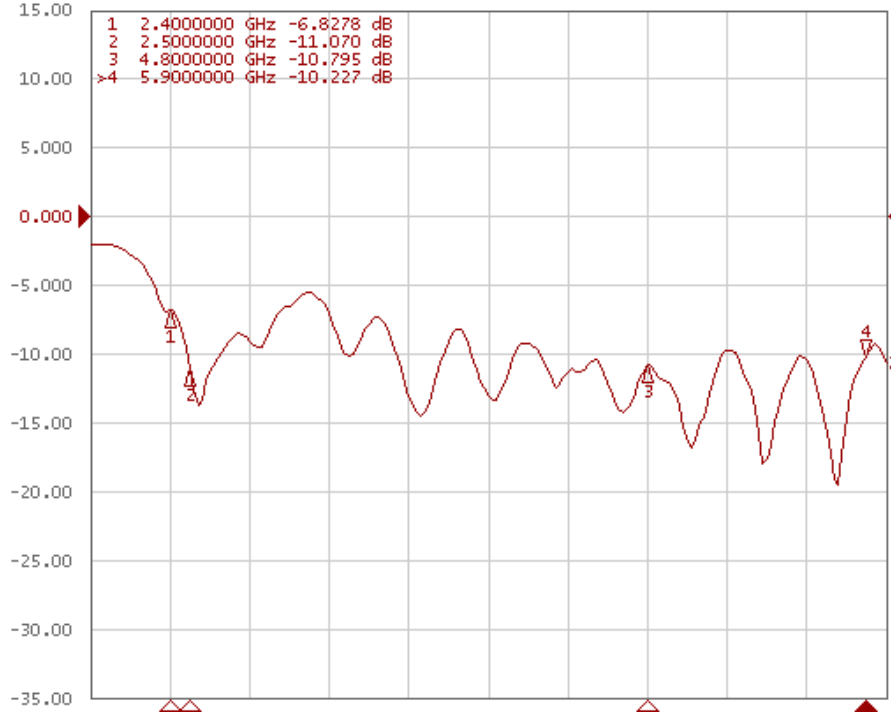
Frequency	Freq 1	2400-2500 MHz
	Freq 2	4900-5900 MHz
Nominal Impedance Ω		50
VSWR		3:1
Gain (dBi) Max	Freq 1	3.6 Max
	Freq 2	4.9 Max
Gain (dBi) Average	Freq 1	3.1
	Freq 2	3.5
Efficiency (%) Average	Freq 1	65
	Freq 2	67
Power Rating , Watts		2, max

Environmental Specifications

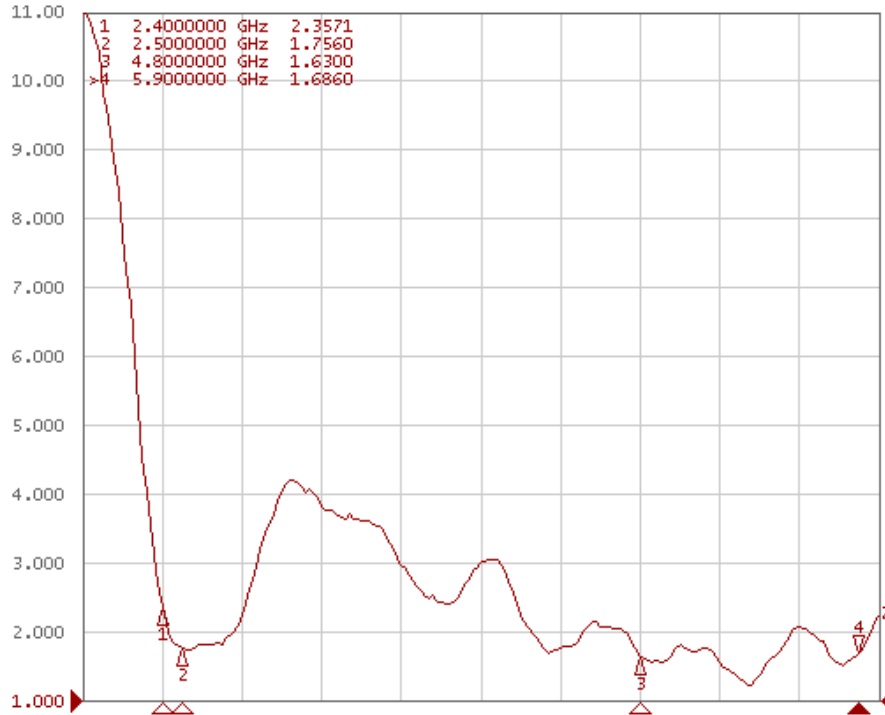
Operating Temperature (°C)	-40 / +85
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SHXXXX: Typical electrical characteristics

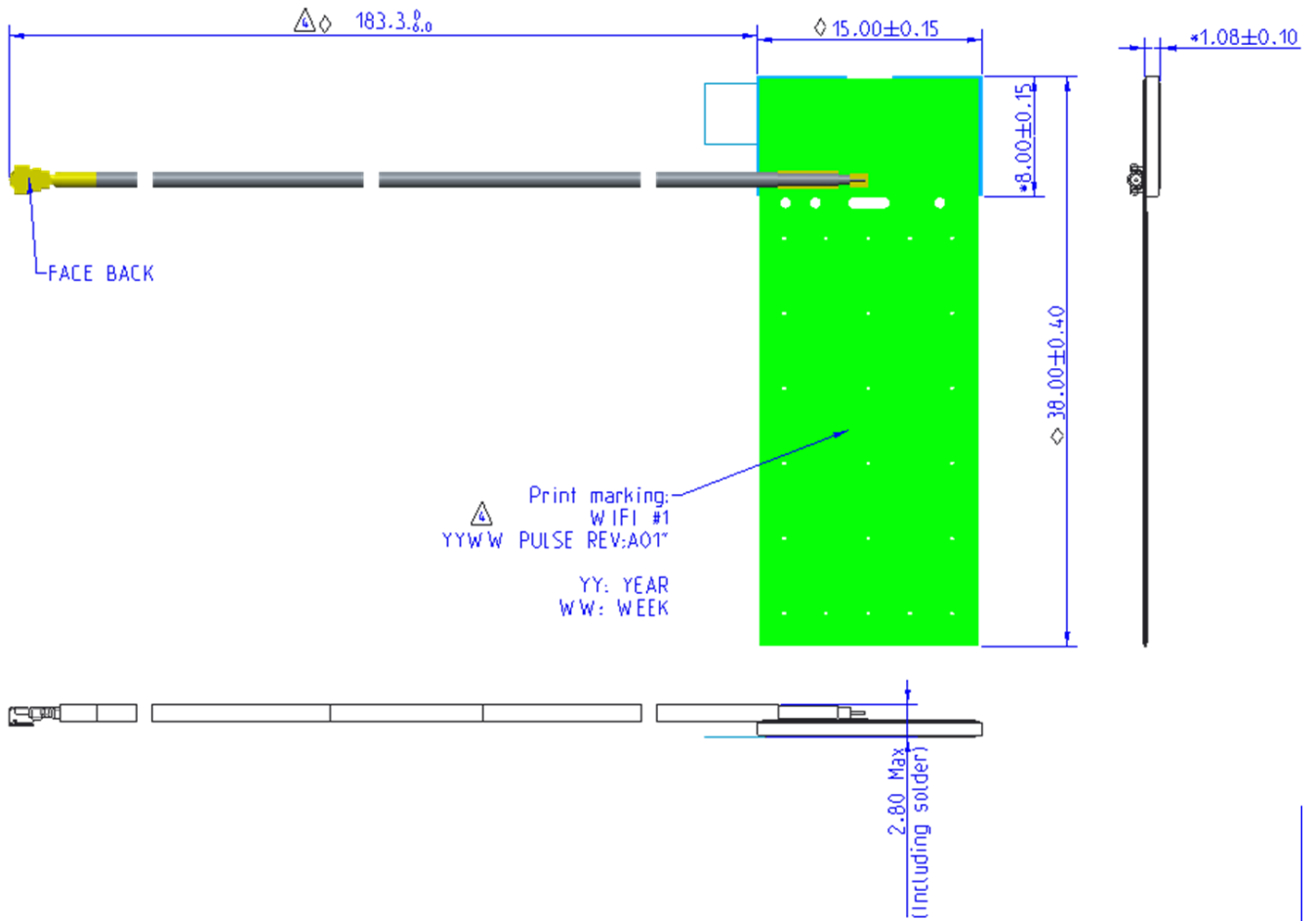
▶ **S11** Log Mag 5.000dB/ Ref 0.000dB [F2]



▶ **S11** SWR 1.000/ Ref 1.000 [F2]



Antenna Dimensions and Coaxial Feed Cable



Cable length (to FPC edge)	Connector type
180mm	I-PEX MHF-4L

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 Jiangsu Province, Suzhou P.R. China

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