



*Application note*

## WiFi Antenna

*Covered frequency range:*  
**2.4GHz & 5GHz**

*Pulse Part Number:* **SH0319D**

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# WiFi #2 Antenna

## Features

- Coaxial Feed
- Single Feed Point
- Total size W x L x H (39mm x 25mm x 1.08mm)
- Antenna size W x L x H (10mm x 25mm x 1.08mm)
- Ground size W x L x H (29mm x 24.6mm x 0.1mm)
- 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.

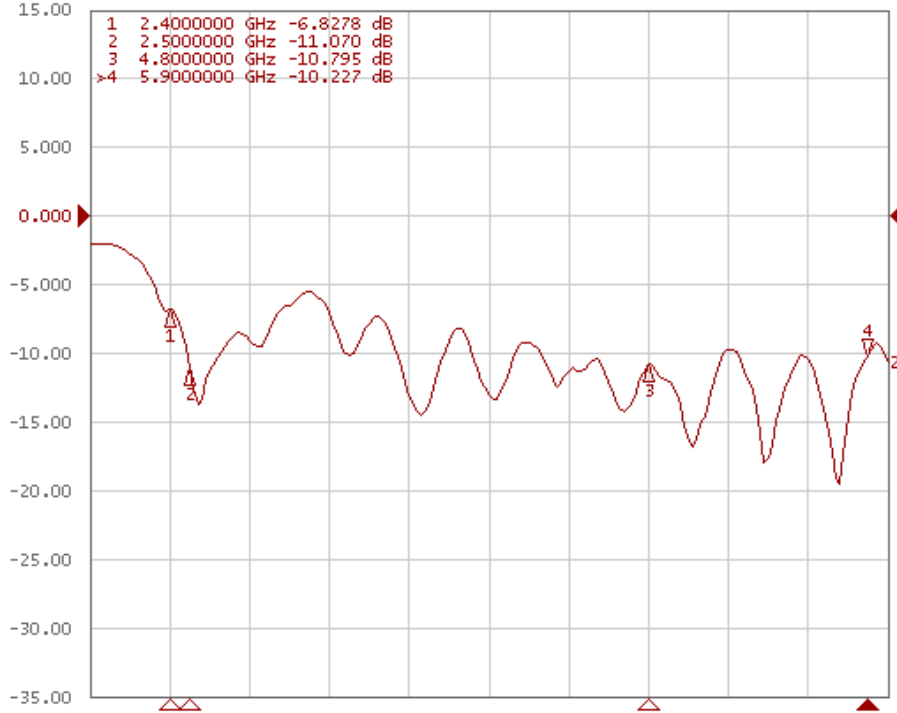
<b>Frequency</b>	Freq 1	2400-2500 MHz
	Freq 2	4900-5900 MHz
<b>Nominal Impedance <math>\Omega</math></b>		50
<b>VSWR</b>		3:1
<b>Gain (dBi) Max</b>	Freq 1	4.6 Max
	Freq 2	4.7 Max
<b>Gain (dBi) Average</b>	Freq 1	3.6
	Freq 2	3.0
<b>Efficiency (%) Average</b>	Freq 1	46
	Freq 2	63
<b>Power Rating , Watts</b>		2, max

## Environmental Specifications

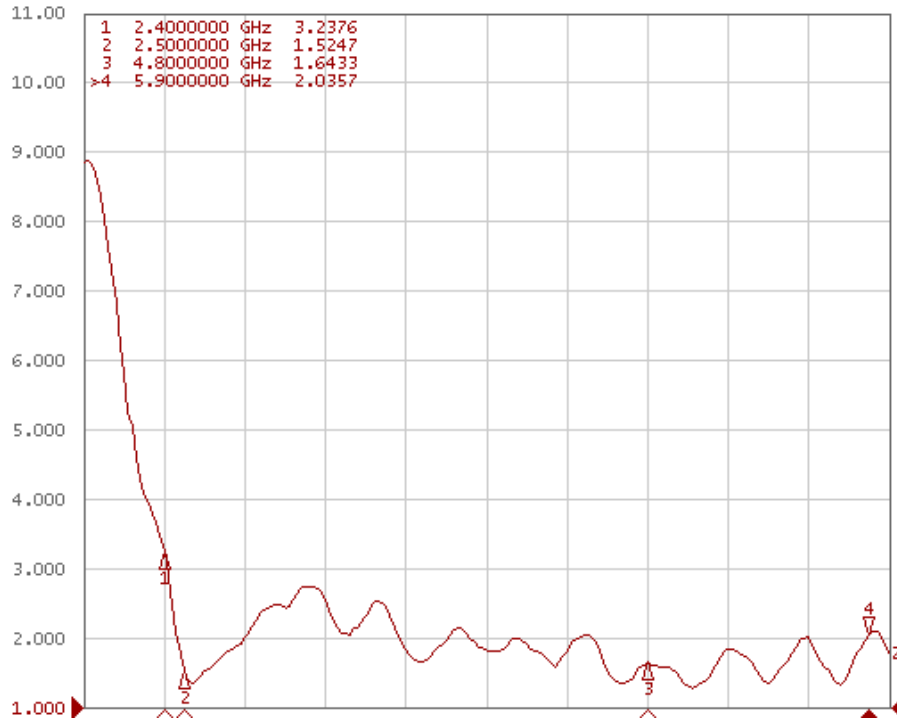
<b>Operating Temperature (°C)</b>	-40 / +85
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**SHXXXXX: Typical electrical characteristics**

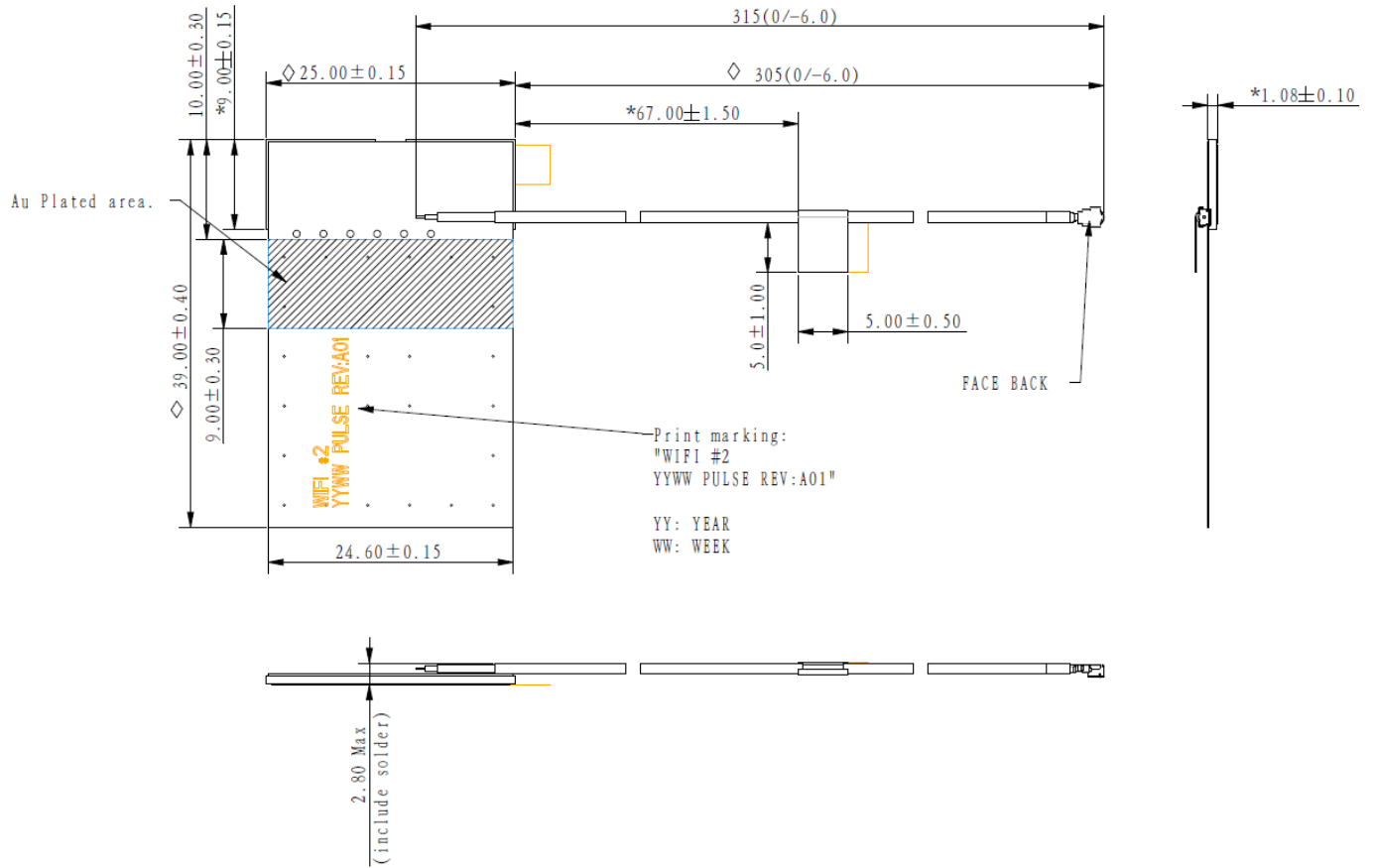
▶ Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F2]



▶ Tr2 S11 SWR 1.000/ Ref 1.000 [F2]



### Antenna Dimensions and Coaxial Feed Cable



Cable length (to FPC edge)	Connector type
315mm	I-PEX MHF-4L

For More Information, please contact:

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