

Shenzhen Hongxin Technology Electronics Co., Ltd.

Product Approval Specification

Company Name:	
Product Name:	2.4G FPC Antenna
Part Number:	HX-FPC24-187-400B1
Customer Part Number:	
Specification:	See specification sheet for details
Date:	2025-06-25

Customer Sign-off:

Engineering Dept.	Quality Dept.	Approved By

Shenzhen Hongxin Technology Electronics Co., Ltd.:

Engineering Dept.	Quality Dept.	Approved By
Zhuang Weifeng	Zhang Huan	Liu Lu

1. Antenna Parameters

Design Specifications	Typical	Units
Antenna Type	FPC Antenna	
Operating Frequency	2400-2500	MHz
Gain	2	dBi
Antenna Efficiency	35~80	%
VSWR (Voltage Standing Wave Ratio)	<2.0	
Polarization	Vertical Polarization	
Radiation Pattern	Omnidirectional	
Feed Impedance	50	ohm
Power Handling	33	dBm
Interface	IPEX1	
Overall Dimensions	18×7	mm
Weight	No requirement	
Operating Temperature	-40 to 85	°C
Storage Temperature	-40 to 85	°C

2. Antenna Physical Photo



Notes:

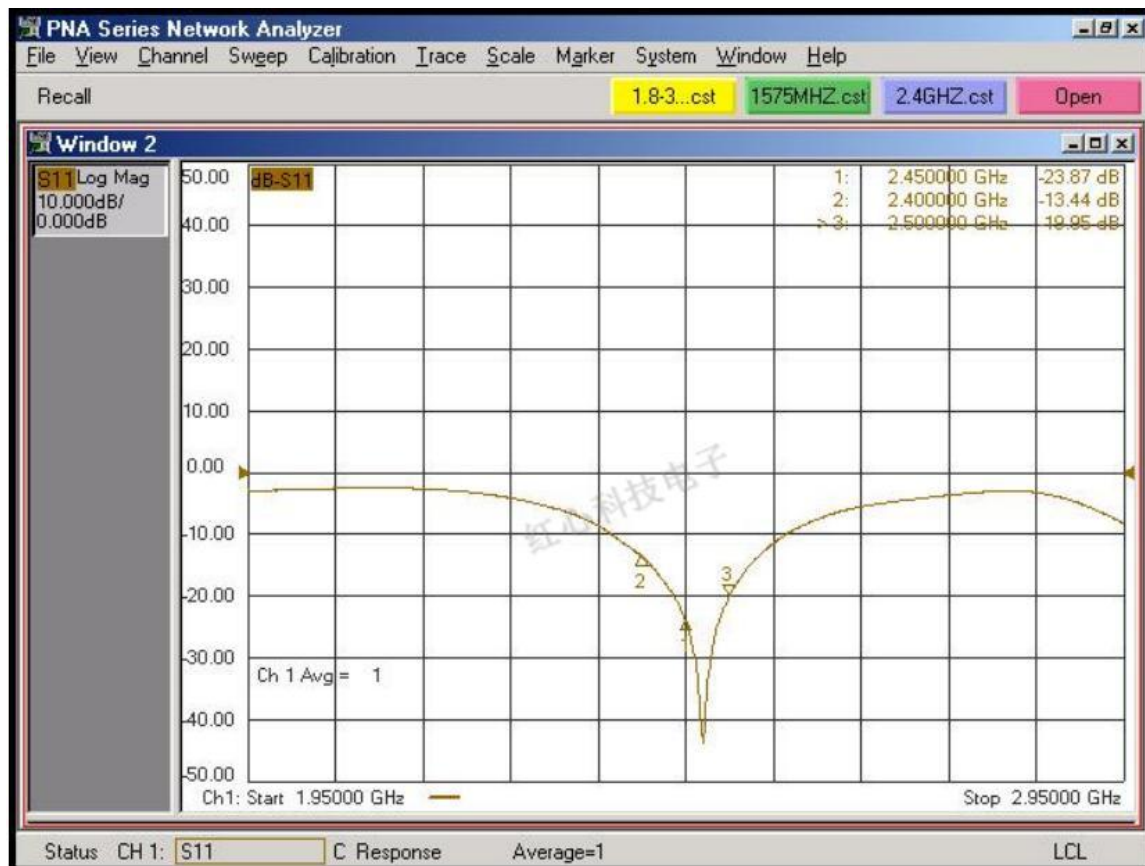
1. Antenna parameters are tested in a simulated environment; performance deviations may occur for different products.
2. The antenna function is relatively sensitive; please notify us for evaluation if there are any changes to the structure surrounding the main body.

3. VSWR / Return Loss / Smith Chart

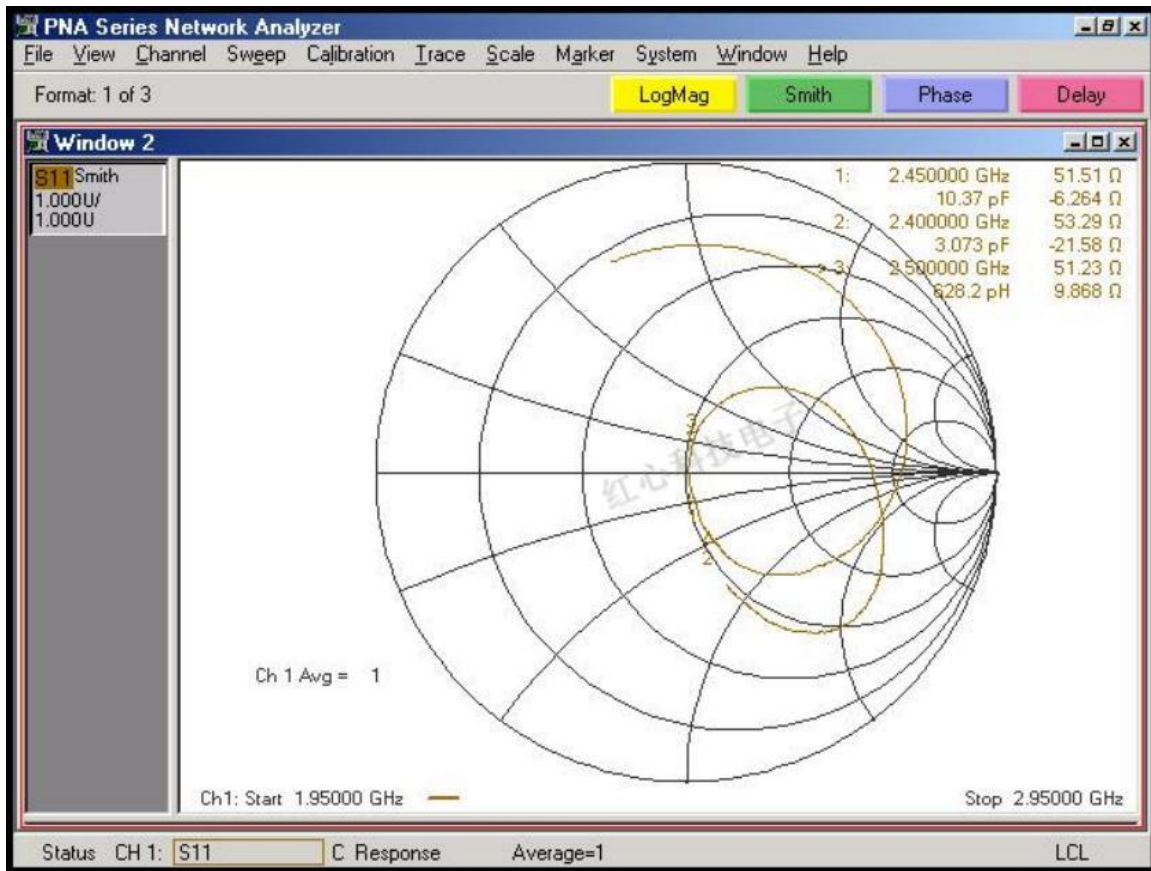
VSWR (Voltage Standing Wave Ratio)



Return Loss



Smith Chart



4. Storage Environment

Operating Temperature: -30 to 70°C

Storage Temperature: -30 to 70°C

5. Dimensional Specifications

