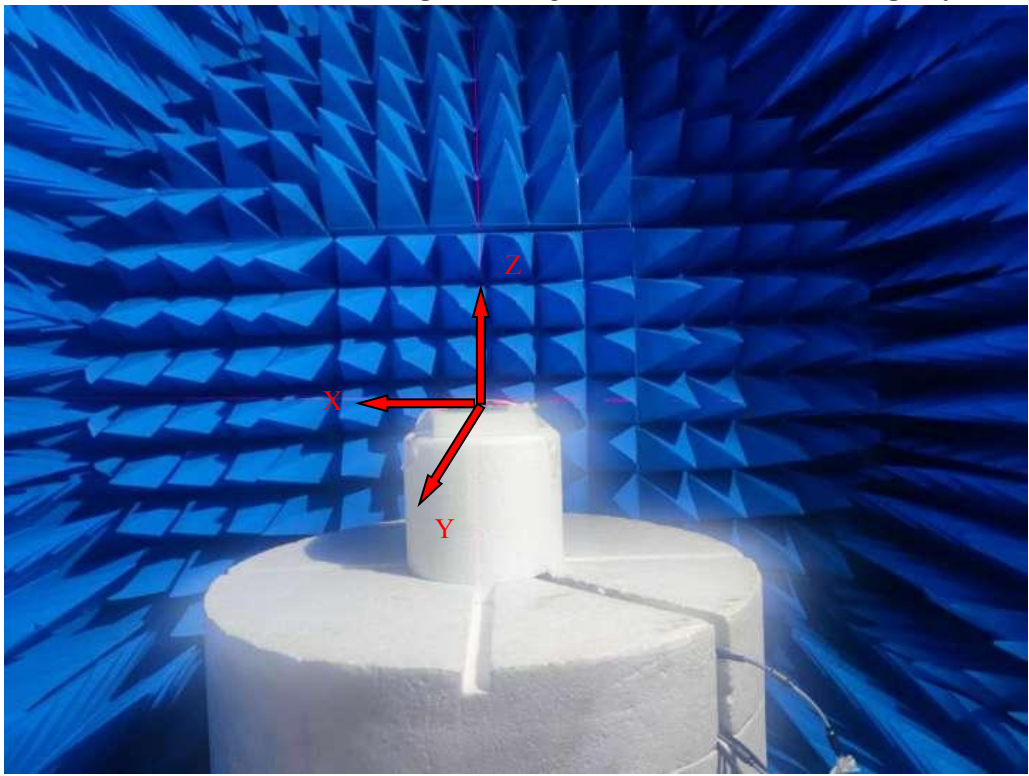


Test Report for On-Board PIFA Antenna in 2.4G – 2.48G Frequency Band

SPECIFICATIONS

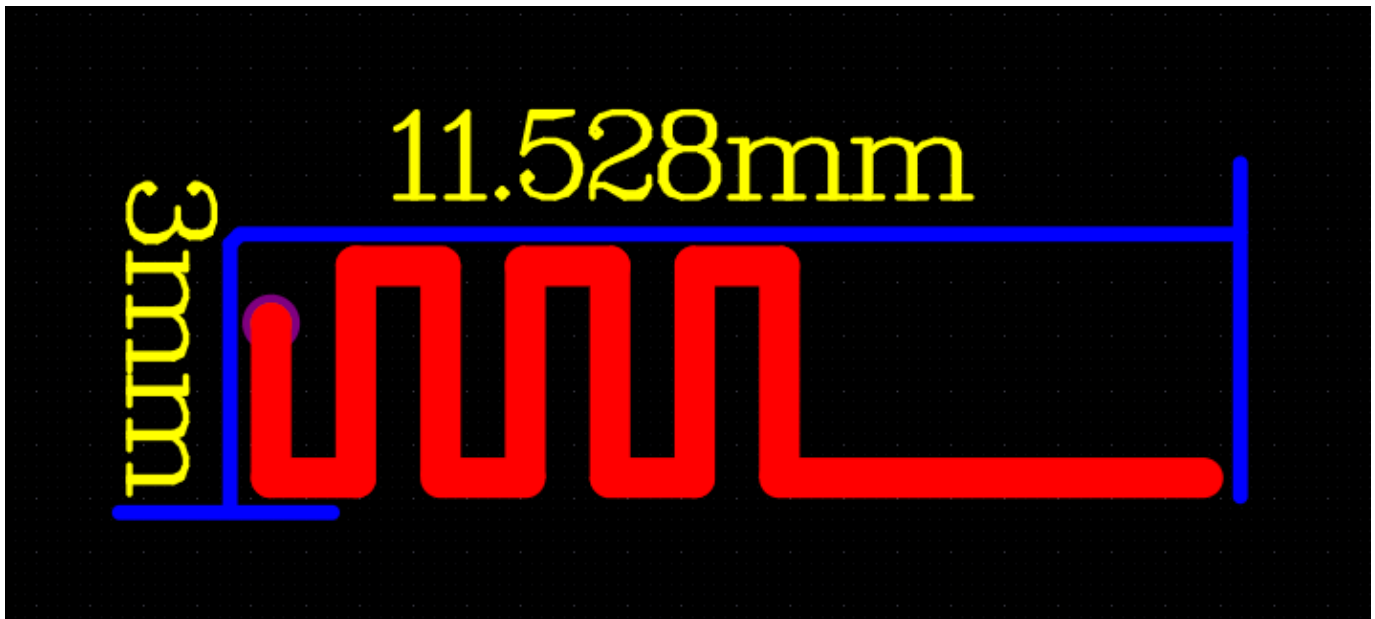
Frequency (MHz)	2400–2480
Peak Gain (dBi)	2.499
Average Gain (dBi)	>−4
VSWR	<3.2
Impedance (Ω)	50Ω
Antenna Type	Plannar Inverted F Antenna on board
Polarization	Linear

Test environment: Zhongke Guoji Darkroom Testing System



Manufacturer
SUICHUAN THE SPEED OF LIGHT ELECTRONICS CO LTD
JANGXIySUICHUAN COUNTY YUNLING INDUSTRYCENTRALIZED ZONEJI AN, yJiangxi 343900 China

Measuring the antenna's physical dimensions



Antenna passive S parameters:
Voltage Standing Wave Ratio (VSWR), Return Loss,
and Smith Chart



Antenna passive S parameters:
Standing wave antenna efficiency and gain

Frequency (MHz)	Gain (dBi)	Efficiency (%)	AverageGain (dBi)	Efficiency (dB)
2400	1.433	59.329%	-2.717	-2.267
2410	0.927	51.861%	-3.416	-2.852
2420	0.829	52.112%	-3.166	-2.831
2430	0.881	49.299%	-3.258	-3.072
2440	1.192	50.672%	-3.144	-2.952
2450	1.688	53.067%	-2.735	-2.752
2460	2.194	59.423%	-2.276	-2.260
2470	2.118	56.680%	-2.438	-2.466
2480	2.499	61.727%	-2.112	-2.095
Average	1.529	54.908%	-2.806	-2.616
Peak	2.499	61.727%	-2.112	-2.095

