

惠州市利贞电子有限公司

Huizhou Lizhen Electronics Co.,Ltd.

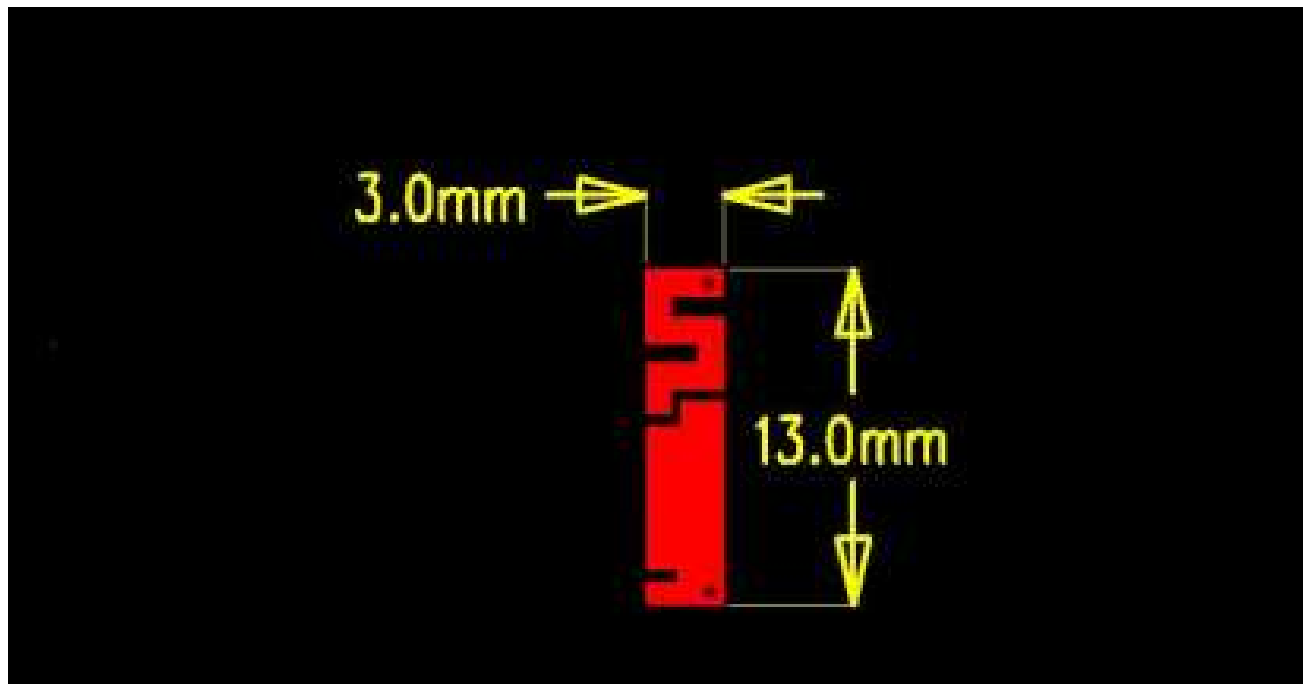
Village Tail Group, Pusang Village, Longxi Sub-district, Boluo County, Guangdong Province, China

产品规格书

PRODUCT SPECIFICATION

客户 Customer	
客户编码 Customers part number	
产品料号 ProductMaterialCode	02.PCB.7388.111
名称 Name	PCB board-mounted WIFI antenna
发行日期 Issue Date	2024-10-09
发行版本 ReleaseVersion	A1

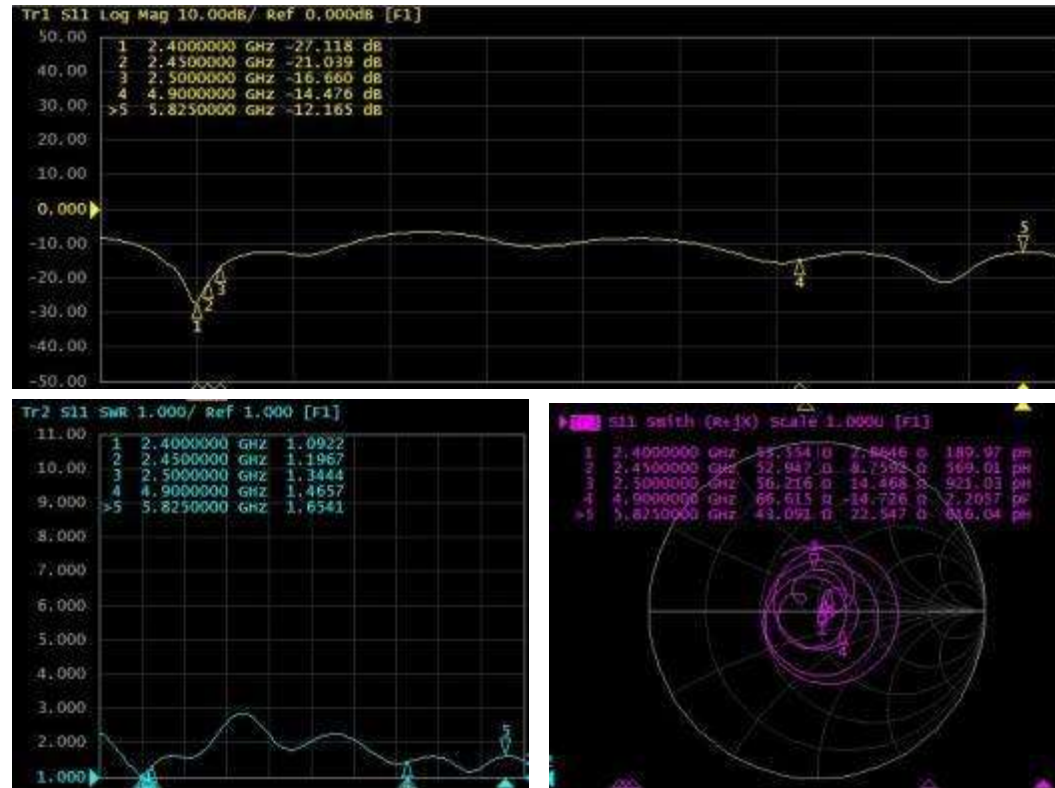
Antenna size
3mm*13mm PCB



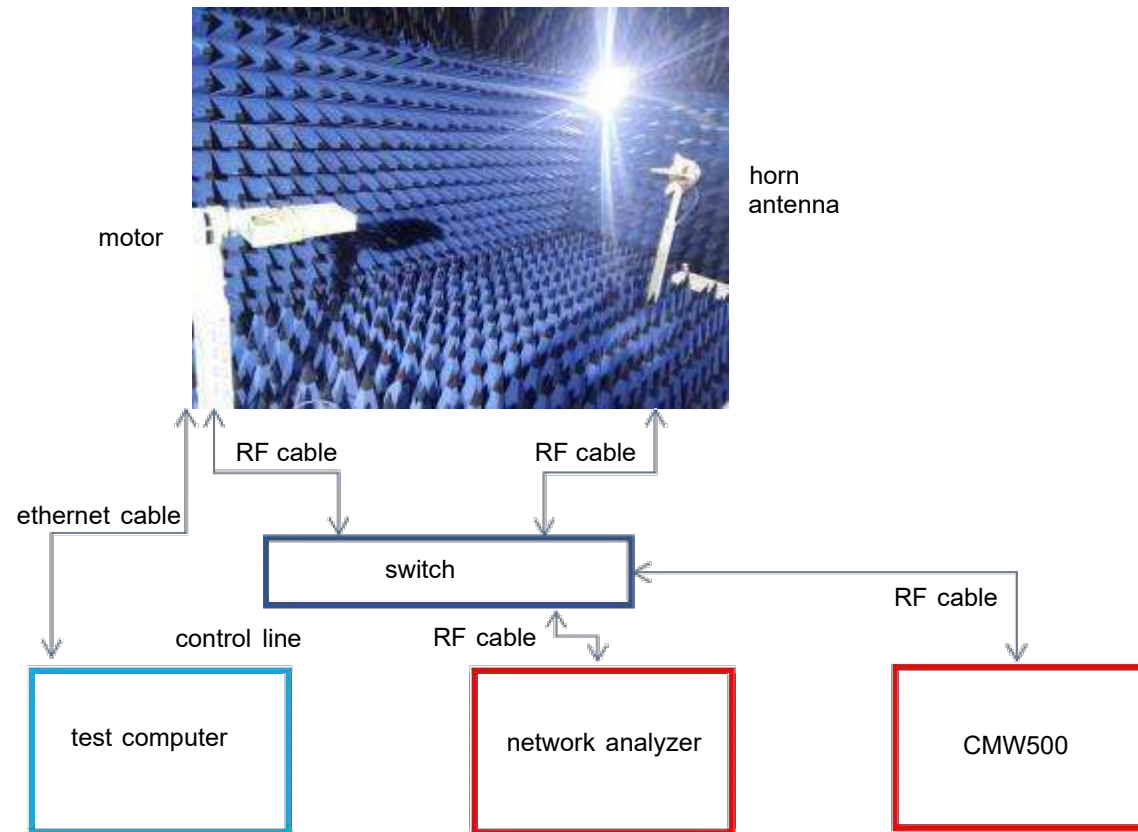
Antenna electrical properties

	Antenna model informationl
Antenna Type	PCB
Frequency	5.1~5.82GHz
Impedance	50ohm nominal
V.S.W.R	≤ 2.0
Return loss	$\leq -10\text{dB}$
Radiation	Omni-directional
Gain(Peak)	5 G:2.75dBi
Polarization	Linear
Admitted Power	5W
Efficiency	5G:65%

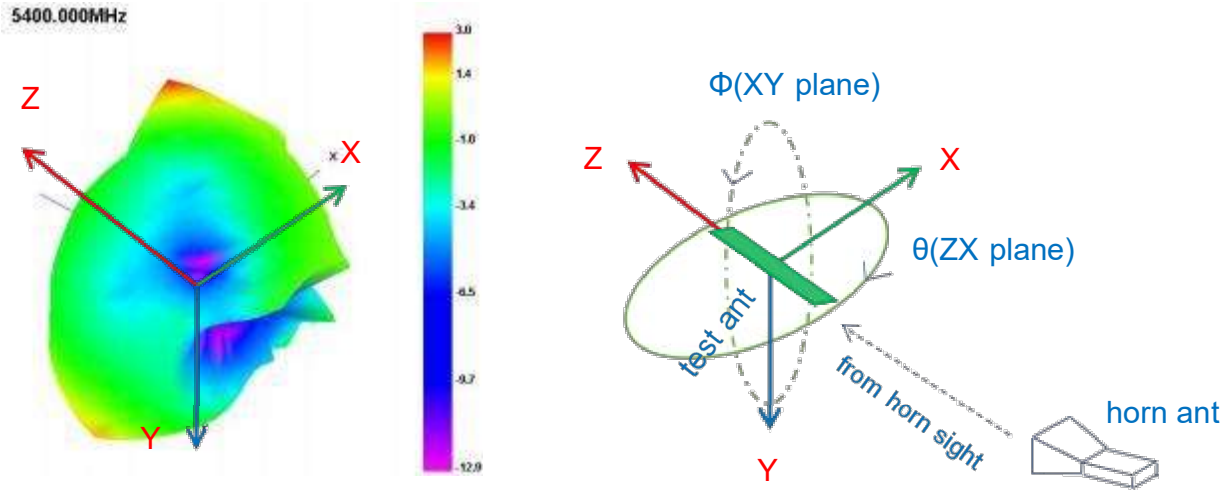
Antenna S-parameter



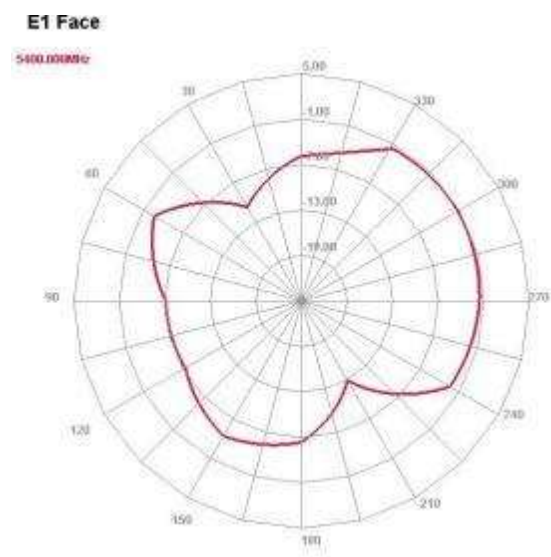
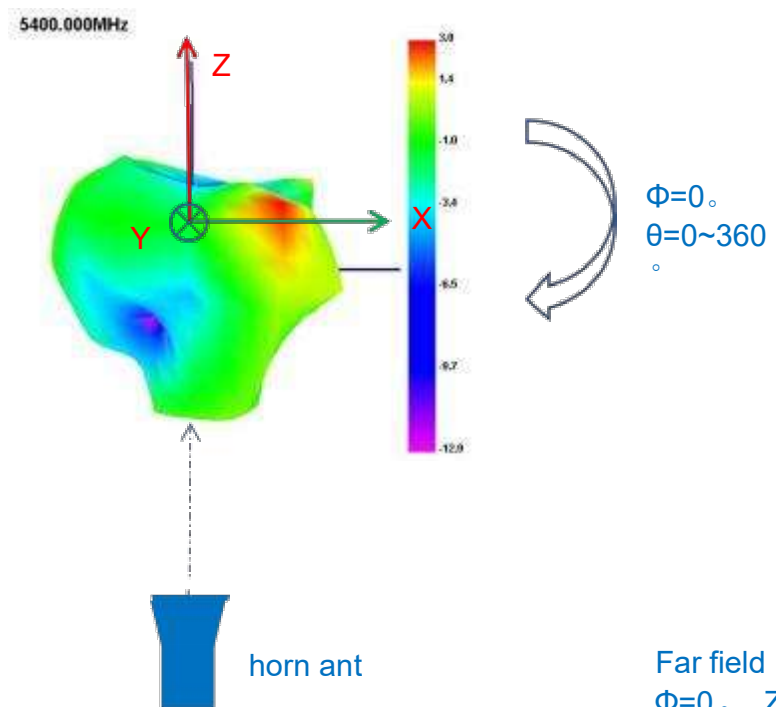
Antenna chamber structure



	Freq. (MHz)	Gain (dBi)	Efficiency (%)
PCB_ANT	5100	2.75	62%
	5400	2.56	65%
	5820	2.4	62%

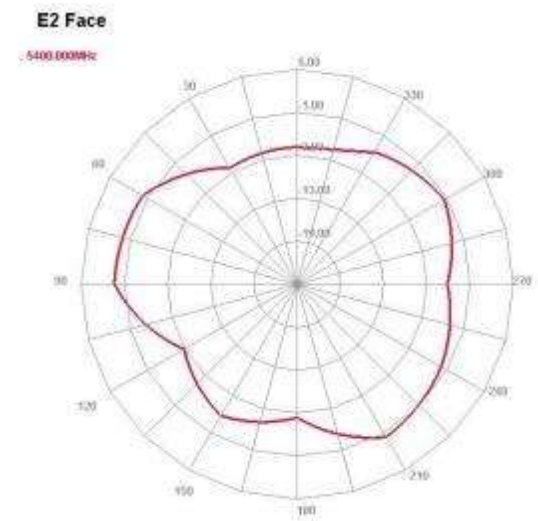
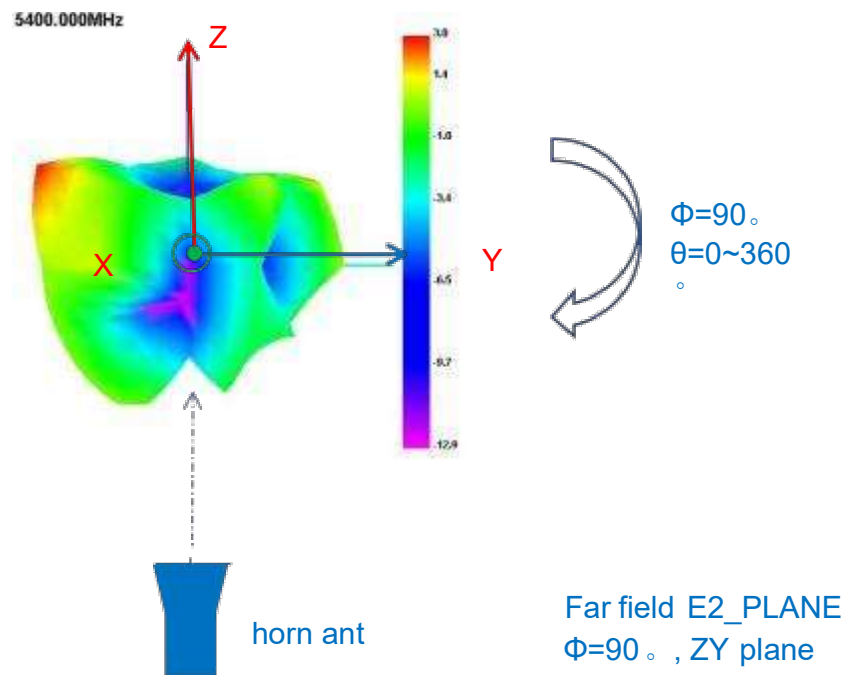


	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.56

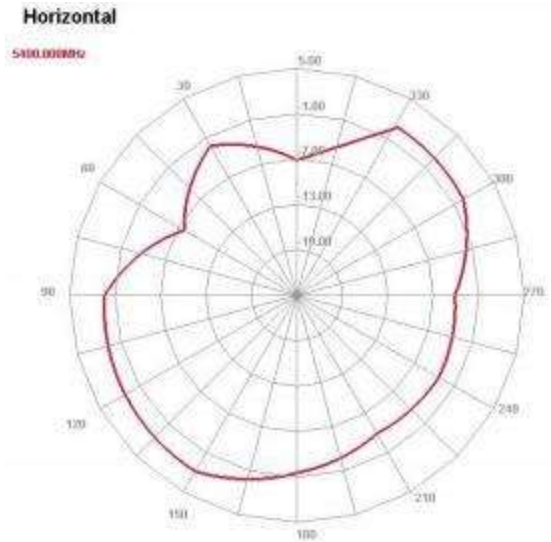
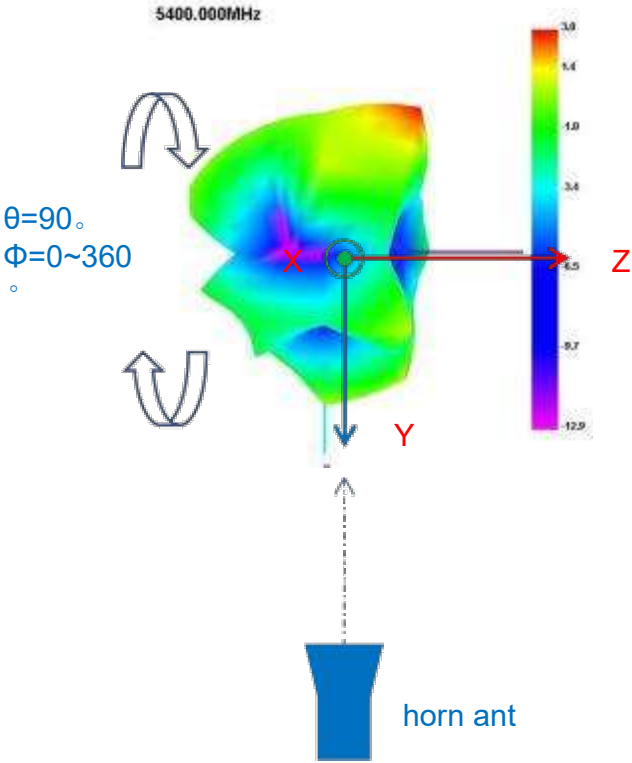


Far field E1_PLANE
 $\Phi=0^\circ$, ZX plane

	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.52



	Freq. (MHz)	Gain (dB)
PCB_ANT	5400	2.53



Far field H_PLANE
 $\theta=90^\circ$, XY plane