

深圳创维数字技术有限公司

SZ SKYWORTH DIGITAL TECHNOLOGY CO.,LTD

ENGINEERING EVALUATION REPORT

(COMPONENTS)

REPORT NO.	EDED2302222	DATE OF APPLICATION	2023-02-17
MODEL	TEN22	APPLICATION NO.	NASP2023020019-1
DESCRIPTIONS	ANTENNA WIFI 50 OHM 189mm/190mm*1.13mm IPEX1 2.4G/5dB Wihte RF-link 扁体 RoHS		
SUPPLIER'S PART NO.	U00T01S069N02808		
SKYWORTH'S PART NO.	53XD-080025-A086		
MANUFACTURER	Jiangxi RF Link Electronic Co., Ltd. Address: Shangli Industrial Park, Chishan Town, Shangli County, Pingxiang City, Jiangxi Province		
SAFETY CERTIFICATION REQUIREMENTS	不需要		
ENVIRONMENTAL PROTECTION REQUIREMENTS	ROHS2.0		
REMARKS:			
COMMENTS:	IF THERE IS ANY QUALITY PROBLEM,PLEASE FOLLOW THE AGREEMENT OF BOTH		
FICTION:		APPROVAL:	
同敬		刘十格	

Product picture



Basic specification

Parameter attribute	Parameter name	要求值 Required value	厂家规格值 (厂家必填)
specification	Glue stick	白色 189.1mm white	189.1mm 色号 RF006W
	PCB	FR-4	FR-4
	馈线 feeder	灰色 1.13 线, 190mm gray	灰色 1.13 线, 190mm gray
	馈线末端 Feeder end	IPEX 1 代	IPEX 1 代
	配件 attachment	/	/

PCB Gerber 图



产品主要技术参数

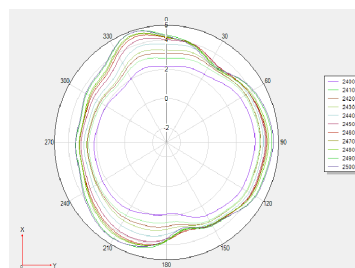
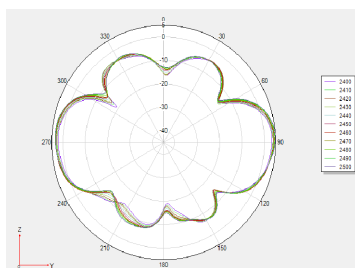
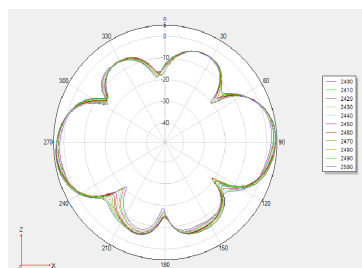
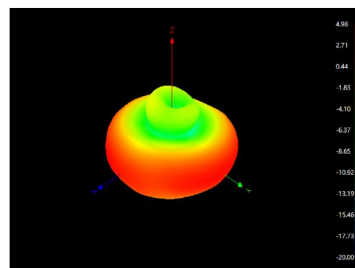
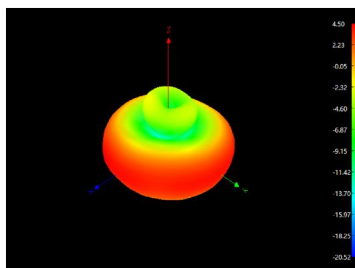
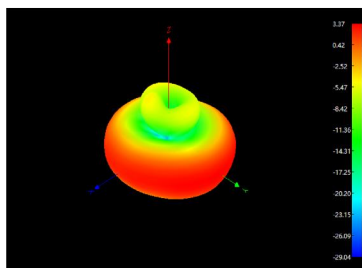
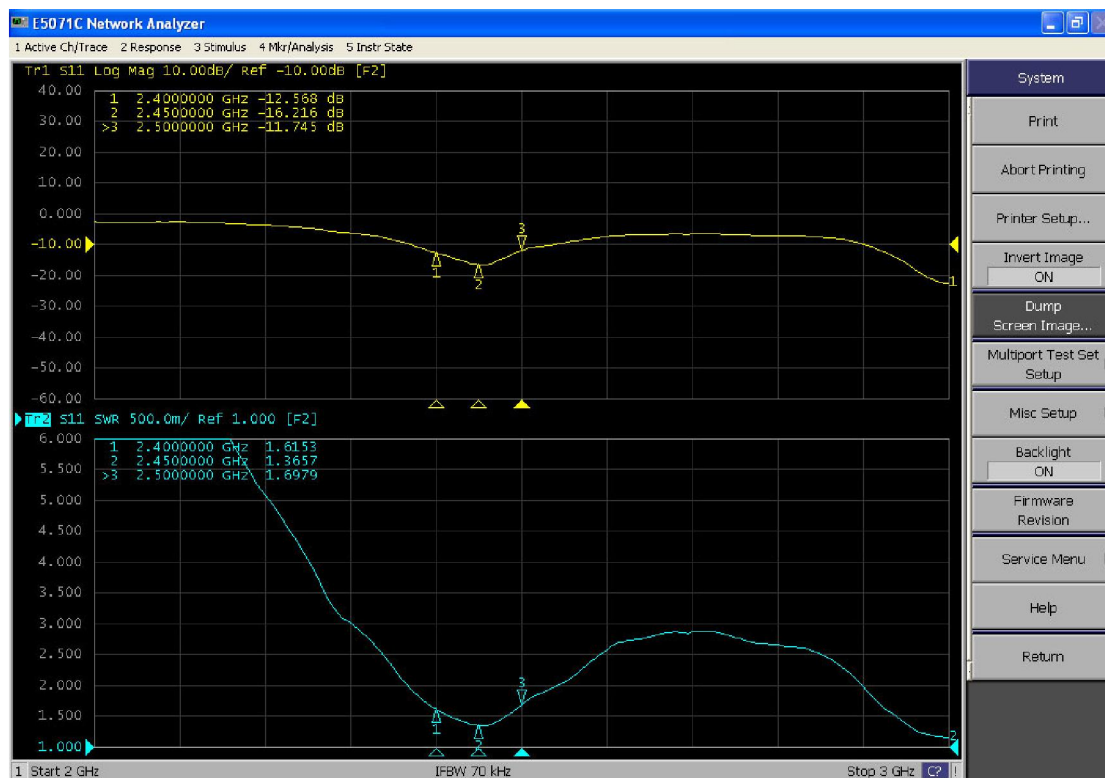
Main technical specifications

主要技术指标		Main technical specifications	
频率范围 (MHZ)	2400-2500	Frequency Range (MHZ)	2400-2500
中心频率 特性阻抗(Ω)	50 $\pm$ 10	Impedance(Ω)	50 $\pm$ 10
增益(dBi)	5	Gain(dBi)	5
反射损耗	$\leq$ -10	Return Loss(dB)	$\leq$ -10
输出电压 驻波比	$\leq$ 1.92	VSWR	$\leq$ 1.92
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	端子	Connector Type	端子
物理性能		Physical Properties	
天线本体材料	ABS	Antenna Base	ABS
工作温度	-20 $^{\circ}$ C~+60 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C~+60 $^{\circ}$ C
保存温度	-20 $^{\circ}$ C~+70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C~+70 $^{\circ}$ C

Electrical property

Parameter attribute	Parameter name	Required value	Manufacturer specification value	Manufacturer's typical value
Electrical property (Key parameter)	gain	5dBi	5dBi	5dBi
	efficiency	$\geq 70\%$	$\geq 70\%$	$\geq 70\%$
Electrical property (Ordinary parameter)	Frequency range	2400-2500MHz	2400-2500MHz	2400-2500MHz
	Characteristic impedan	50 Ω	50 Ω	50 Ω
	S11	$\leq -10\text{dB}$	$\leq -10\text{dB}$	$\leq -10\text{dB}$

测试报告



Frequency / MHz	Gain/ dBi	Efficiency / %
2400	3.37	54.7
2410	3.69	59.29
2420	3.75	61.66
2430	3.76	62.66
2440	4.09	66.07
2450	4.5	68.71
2460	4.75	69.34
2470	4.85	67.61
2480	4.86	67.61
2490	5	66.22
2500	4.98	64.57