



Shenzhen Feisheng Electronic Co., LTD

## Specification For Approval

Part name: SMA (ZK), 2.4G/5.8G-5dBi, Black Rubber antenna, 178 brown, L195MM

Part No.: FS-3010-0241

Manufacturer recognition		
Drafters	check	Approver
Cheng Yang Hui	Zhang Bing	Zhou Xi Hui
Thank you for giving us the chance to approve samples. If you agree to pass it, please kindly send it back to us.		

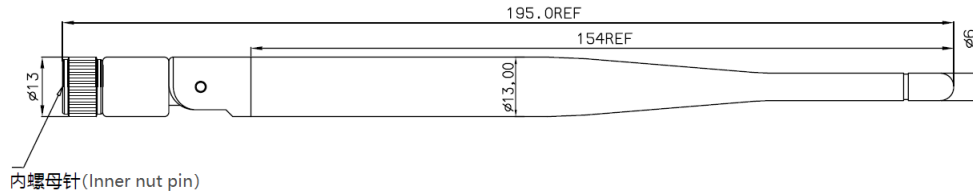
Manufacturer: Shenzhen Feisheng Electronic Co., LTD

Manufacturer's address : 3rd Floor, No.70 Baotong South Road, Yungu Street, Xikeng Industrial Zone, Yuanshan Street, Shenzhen City

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# 1. Product size drawing



Requirements:

1. Surface without damage
2. Finished product must be 100% full inspection OK.
3. Using environmental protection process.

FREQUENCY RANGE	2400-2500
Gain	3.55dBi
VSWR	<2.0:1
Polarzation	Linear.Vertical
Mae power rating	50W
Lmpedance	50OHM

FREQUENCY RANGE	5000-5800
Gain	5.52dBi
VSWR	<2.0:1
Polarzation	Linear.Vertical
Mae power rating	50W
Lmpedance	50OHM

PRODUCT NAME				
SMA-2.4/5G Double frequency rubber antenna -L=195MM				
PRODUCT NO	UNIT	MM	SIZE	FREE
FS-3010-0241	PAGE		FORMAT	A4

## 2. product appearance

Installation dimensions	Φ 13*195MM	Fixed way	Screw fixed
Weight	/	The connector type	SMA female head
Shell color	black	cable	178 brown

## 3. Antenna performance parameters

Project	Features	Unit
Frequency range	2400~2500	MHz
Output impedance	50	Ω
Standing wave ratio	<2.5	
gain	3.55	dBi
Polarization mode	Vertical polarization	
Radiation direction	omnidirectional	
Maximum input power	5	W
Working temperature	-40~+70	°C
Storage temperature	-45~+75	°C

Project	Features	Unit
Frequency range	5150~5850	MHz
Output impedance	50	Ω
Standing wave ratio	<2.5	
gain	5.52	dBi
Polarization mode	Vertical polarization	
Radiation direction	omnidirectional	
Maximum input power	5	W
Working temperature	-40~+70	°C
Storage temperature	-45~+75	°C

## 4. Cable head specification

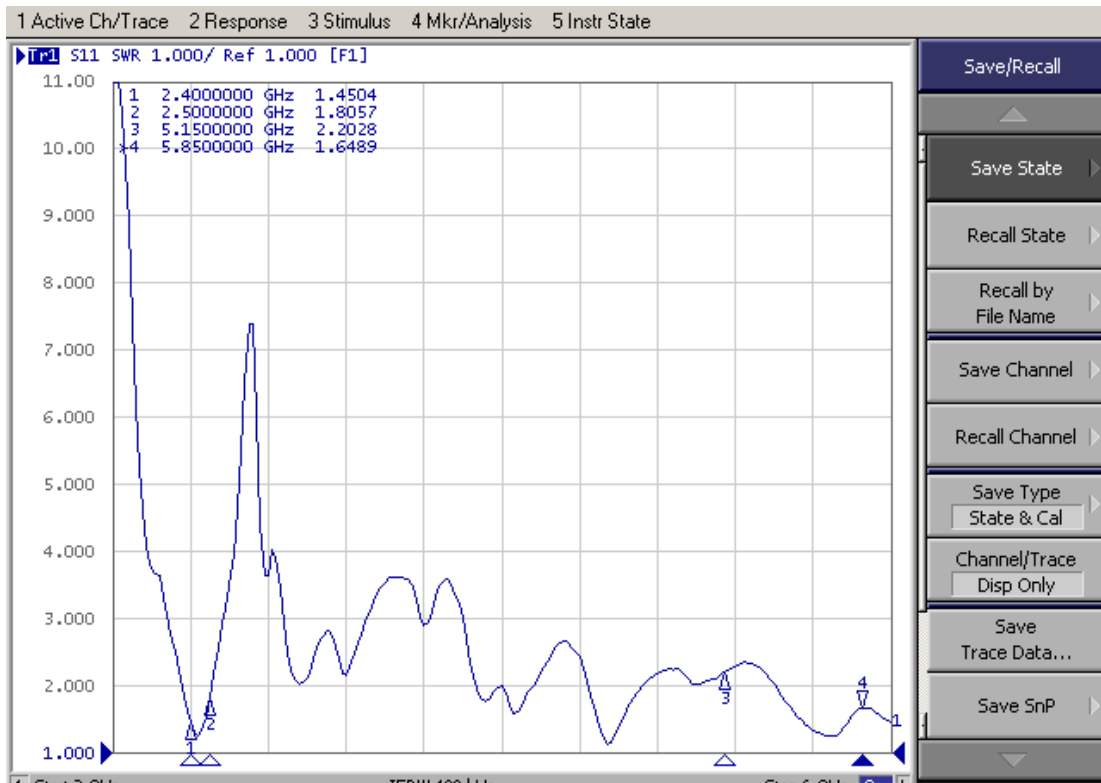
### Materials and coating

NO.	Name of parts,	The material	The plating	Note
1	Inner conductor	brass	Gold plated	
2	insulators	Teflon PTFE		
3	shell	brass	Nickel plating	
4	Plating thickness	Gold plated	1~1.2u"	

### Electrical properties

NO.	The test items	Technical indicators	Note
1	The characteristic impedance	50 $\Omega$	
2	Temperature range	-55 ~ +155 $^{\circ}\text{C}$	
3	Frequency range	0~3GHz	
4	Medium pressure	1000V(rms)	
5	Contact resistance	Inner conductor $\leq 3\text{m}\Omega$ Outer conductor $\leq 2\text{m}\Omega$	
6	Insulation resistance	$\geq 5000\text{M}\Omega$	
7	Voltage standing wave ratio	$\leq 1.25$ (soft cable)	

## 5. Antenna performance test



Passive Test For 2.4G-T1			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	60.23	-2.2	2.4
2410	66.77	-1.75	2.91
2420	68.59	-1.64	3.03
2430	69.27	-1.59	3.08
2440	70.17	-1.54	3.14
2450	74.89	-1.26	3.48
2460	75.14	-1.24	3.55
2470	75.35	-1.23	3.55
2480	71.92	-1.43	3.32
2490	67.16	-1.73	2.99
2500	64.56	-1.9	2.82

Passive Test For 5.8-T1			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	71.93	-1.43	3.41
5200	90.06	-0.45	4.7
5250	87.18	-0.6	4.66
5300	63.52	-1.97	3.53
5350	68.79	-1.62	3.88
5400	97.81	-0.1	5.52
5450	91.45	-0.39	5.28
5500	84.07	-0.75	5.11
5550	81.29	-0.9	4.85
5600	76.84	-1.14	4.53
5650	78.41	-1.06	4.52
5700	69.41	-1.59	3.92
5750	71.62	-1.45	3.88
5800	71.09	-1.48	4.04
5850	71.73	-1.44	4.4
5900	56.96	-2.44	3.76

## 6. Product will figure

