

Product name : RP-SMA-GSM Rubber antenna-L169

1 , Products Basic Characteristics :

Model NO : ST-ANGSM-3RSR	
DESCRIPTION	VALUE
Frequency range	824-960/1710-1880MHZ
Impedance	50Ω
V.S.W.R	2.0 Max
Return loss	-10dB (Max)
Gain	3dBi
Radiation	Omni-directional
Radiating element	1/4 Wave Helical
Polarization	linear Vertical
Admitted power	1W
Connector	RP-SMA Male
Operating temp	-10°C~+60°C
Storage temp	-10°C~+70°C
Weight	About 18g

2 , Reliability Test Report

1) Environmental tests and requirements

NO	Test Item	Test methods and conditions	Test equipment	Test results
1	Temperature and humidity test	The purpose of this test program is, using detailed standard test methods to evaluate the performance from the aspects of high humidity, heat and material	K.SON INS THS-A4L-150	PASSED
		Requirement: Temp:70°C Humidity:90~95%(R.H) Time : 72H		
2	Low temperature test	Samples should be placed in a value measured by temperature, the temperature is set at -20 °C	K.SON INS THS-A4L-150	<i>PASSED</i>
		Requirement: Time : 24H		
3	High temperature test	Samples should be placed in a value measured by temperature, the temperature is set at 70 °C	K.SON INS THS-A4L-150	<i>PASSED</i>
		Requirement: Time : 24H		
4	Thermal Shock	Samples should be placed in a value measured by temperature, the temperature is set at -20~70°C	K.SON INS THS-A4L-150	<i>PASSED</i>
		Requirements: 8H or more. (30 minute/per,12 week period)		
5	Salt spray test	Samples should be placed in a fixed environment under its requirements: NaCL concentration: 40-60g/1Kg PH: 6.5-7.2 test: 24H	Salt spray test machine	<i>PASSED</i>
		1. gold-plated products are not allowed to rust and peeling 2. other nickel-plated,tin-plated, zinc products at the same shaft or rust above the surface must not have more than two points.		

2) Mechanical settings and requirements :

NO	Test Item	Test methods and conditions	Test equipment	Test results
1	Vibration test	Test conditions A The purpose of this test program is, used in the standard test methods for detailed product, they exercise or move, affecting the performance of materials evaluation.	Vibration testing machine	PASSED
		Requirement : Vibration scope: 10-55HZ amplitude: 0.35mm acceleration amplitude: 50.0M/S sweep cycles: 30 times		
2	Drop test	The samples should be stored in a certain height, the height is set to 1M, follow the direction 6 fell 3 freedom.	Drop test fixture	PASSED
		Requirement : Mechanical characteristics of normal after the drop test.		

3、 SMA Specification

TECHNICAL SPECIFICATIONS :

Temp.range : -55°C ~ +155°C

Impedance : 50Ω

Frequency Range : DC ~ 12.4GHz

Working Voltage : 335Vmax

Withstand Voltage : 1000V rms

Contact resistance : Center Contact $\leq 3\text{m}\Omega$

Outer Contact $\leq 2\text{m}\Omega$

Insulation resistance : $\geq 5000\text{ m}\Omega$

VSWR : Straight ≤ 1.10

Durability : ≥ 500 cycles

MATERIAL AND PLATING :

Shell : Brass , Gold-plated

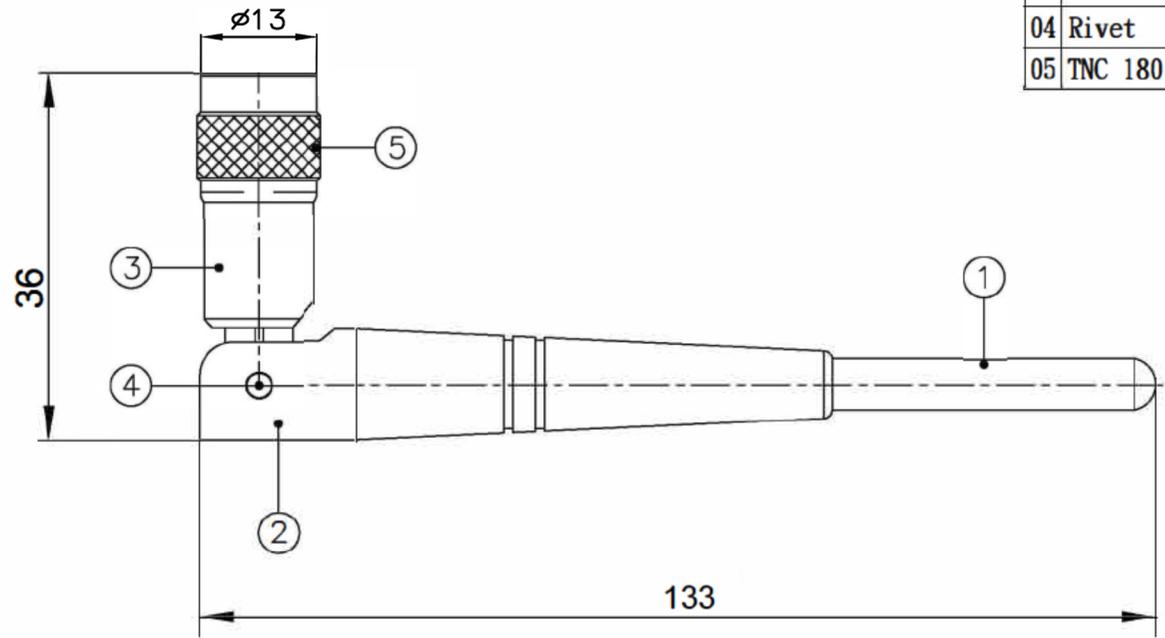
Contact pin : Brass ,Gold-plated

Socket contact : Beryllium brass , Gold-plated

Insulator : PTFE

Crimping suite : Copper alloy , Gold-plated

NO.	NAME	FINISH	Q, TY
01	Core tube	Black	01
02	Fixed upper	Black	01
03	Fixed beneath	Black	01
04	Rivet	Chrom plating	02
05	TNC 180°(Male)	Chrom plating	01



Tolerance: ±3

Weight: 18g

Antenna length when unfolded: 155mm



角法 ANGLE PROJECTION 	PRODUCT NAME				
	SMA-GSM Rubber antenna-L169				
公差 GENERAL TOLERANCE 100~200: ± 3.00 50~100: ± 2.00 25~50: ± 0.20 10~25: ± 0.10 1~10: ± 0.05 ▽: Critical Dim @: Major	PRODUCT NO	单位 (UNIT)	M M	比例 (SIZE)	FREE
	ST-ANGSM -3 R S R	页数 (PAGE)	1 0f 1	幅面 (FORMAT)	A 4
	设计 (D S)				
	审核 (CHK)				
	核准 (APPD)				