

Shenzhen Kinghelm Electronics Co., Ltd.

Specifications For Approval

Customer:					
Customer P/N: _					
Product Name:	SMA	(ZJ) -2.4G	Sucker Antenr	na-17	4 Black-L3M
Model:		KH-2400-	-3M-XP		
Specifications:					
Date:					
Company P/N:					
			r Approval		
Confirmed		Ch	ecked		Approved
			ure Approval		
ales Representative	Pı	repared	Checked		Approval



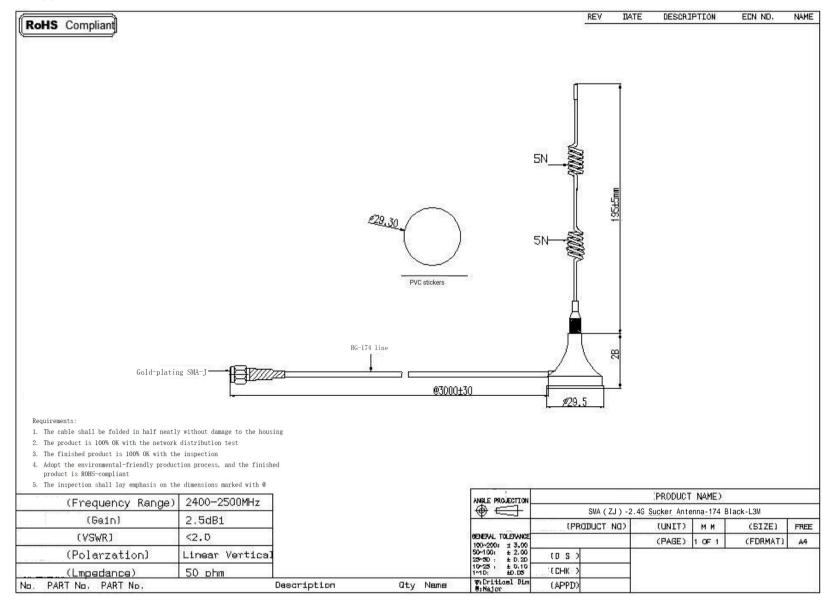
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History of Revisions							
Edition	Revision	Engineer	Date				
A0	New						



3. Appearance dimensions





4. Appearance Overview

Appearance Dimension	Ø29. 5*223mm	Mounting	Magnetic installation
Weight	/	Connector Model	Gold-plating SMA-J
Colour of Housing	Black	Cable	RG-174 line

5. Antenna Properties Parameters

or initialization of the control of							
ITEM	Characteristics	Unit					
Frequency Range	2400~2500	MHz					
Output Impedance	50	Ω					
SWR	≤ 2.0	——					
Gain	≥2.5	dBi					
Polarization	Vertical						
Radiation	Omnidirectional						
Max Power input	5	W					
Working Temp	-40~+70	$^{\circ}$ C					
Storage Temp	-45∼+75	$^{\circ}$ C					

6. Connector Specifications

	•			
Serial	Part Name	Material	Plating	Remarks
Number				
1	Inner Conductor	Brass	Gold-plating	
2	Insulator	PTFE		
3	Housing	Brass	Gold-plating	

Electrical Properties

	T T OP OI TIOS		
Serial	Test Item	Technical Criteria	Remarks
Number			
1	Characteristic	50 Ω	
	Impedance		
2	Temp Range	-55∼+155°C	
3	Frequency Range	0∼3GHZ	
4	Dielectric	1000V (rms)	
	Strength		
5	Contact	Inner Conductor≤3mΩ	
	Resistance	Outer Conductor≤2mΩ	
6	Insulation	≥5000M Ω	
	Resistance		
7	VSWRL	≤1.25(soft cable)	



7. Environmental Test

Environmental Test Report

P/N					Design	ation			
Test Item	High-low temperature test, humidity test								
Test	Humidity Chamber Sample Size								
Equipment									
Test	1. The plating on the metal surface shall be free of defects such as falling								
Standard	off, cracks and wrinkles; non-metallic parts shall be free of discoloration,								
	cracks, deformation	n, degum	ming e	etc.					
Test Name	Test Item	Crietria Test Mode				Result			
High	Temperature (℃)	75:	±3	a) Put	t the t	ested pa	rt	into the test	
Temperature	Time to test sample	e 1		chambe	er, and	then ad	ljus	st the	
Test	temperature (h)	2		temper	rature	to 75 ℃	\pm	3 ℃, and	
	Test duration (h)	1		monito	or the	time.			Acceptable
	Recovery time (h)			b) Aft	ter the	test, p	lac	e it at room	
				temper	rature	for 1 ho	ur	for routine	
				inspec	ction.				
Low	Temperature (℃)	-40)±3	a) Put	t the t	ested pa	rt	into the test	
Temperature	Time to test sample 1 chamber, and then adjust the			t the					
Test	temperature (h)	2		temper	rature	to −40 °C	С±	3 ℃, and	Acceptable
	Test duration (h)	1		monito	or the	time.			
	Recovery time (h)			b) Aft	ter the	test, p	lac	e it at room	
				temper	rature	for 1 ho	ur	for routine	
				inspec	ction.				
Humidity	Temperature (℃)	+40	0 ± 3	Put th	ne test	ed part	int	to the test	
Test	Relative humidity	` '	-95	chamber, and then adjust the					
	Test duration (h)	21		temper	temperature and humidity of the test			Acceptable	
	recovery time (h)	1		chambe	er to +	40 °C ±	3	$^{\circ}$ C and 90-95%	
				_	_			or the time.	
								e it at room	
						for 1 ho	ur	for routine	
				inspec	ction.				
Test Item	Free Fall Test				1				
Test	Desktop with height	t of 1m			Sample	Size			
Equipment									
Test	1. If the product i			_	•		11	be free from f	alling off,
Standard	cracks, defects, ar					etc.			
Test Name		Criteria		Test N	Mode				Result
Free Fall		Drop 2		Step:					
Test		from bo	th		_	_		at a height	Acceptable
		sides	of 1000mm and conduct routine						
				inspec	ction a	fter the	te	est.	



Test Item	Salt Spray Test							
Test	Salt spray testing machine Sa			le Size				
Equipment								
Test	1. The plating on the metal surface shall not falls off; the appearance shall b							
Standard	free of rust, corr	rosion, oxidation etc						
Test Name	Test Item	Criteria		Test Mode		Result		
Salt Spray	1. NaCl	$40-60g/1kg 1.0\pm0.02$	1kgf	Steps:				
Test	concentration:	m²		a) Set the	salt spray			
	2. Air pressure:	6. 5-7. 2		testing ma	chine to the	Acceptable		
	3. PH value:	1.0-2.0m1/80c/h。		relevant t	est conditions.			
	4. spray amount:			b) Put the	tested part			
	5. Temperature of			into the s	alt spray			
	brine test			testing ma	chine for 24			
	Setting			hours. Aft	er the test,			
	a. Laboratory			rinse it w	ith clean			
	temperature:			water, vis	ually inspect			
	b. Pressure tank			the appear	ance of the			
	temperature:			tested par	t and conduct			
	6. Time:			routine in	spection.			
		35±1℃		After the	test, rinse it			
	a. Laboratory	47±1℃		with clean water,				
	temperature:	24H		visually i				
	b. Pressure tank			appearance	of the tested			
	temperature:			part and c	onduct routine			
	6. Time:			inspection	•			
Inspector:		Checked:		Approved:				



8. Product Image

