

Shenzhen Kinghelm Electronics Co., Ltd

Specification For Approval

Customer Name:
Customer P/N: KH-SMA(ZJ)-4G-L1M
Specification: SMA(ZJ)-4G Explosion Proof Antennae-L1M
Dowt Nivershow
Part Number:
Date:

Customer Confirmation					
Checked	Auditor	Approved			

Manufacturer Acknowledgement							
Sales Representative Checked Auditor Approved							



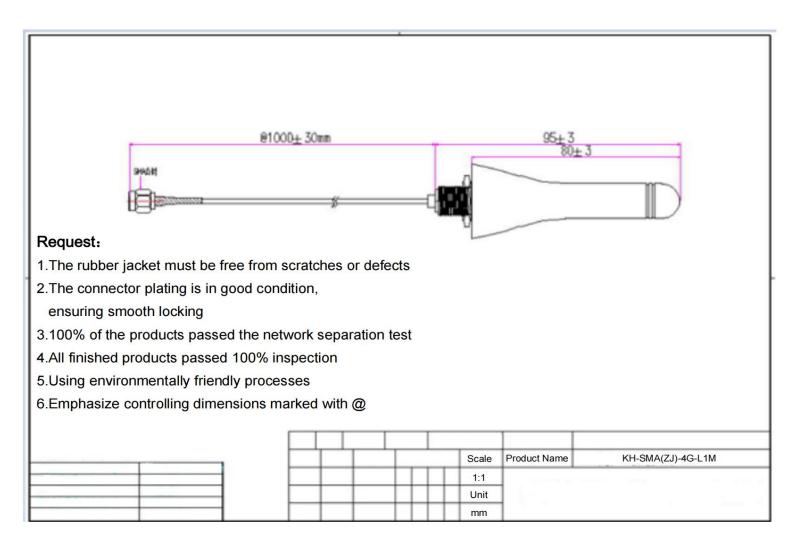
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Modification Record						
Edition Contents Of Modification Engineer Dat						
A0	New Construction					



3. Product Dimension





4. Product Appearance

Dimension	95mm	Mounting Method	Spiral Fixation
Weight	≤ 6.5 g	Connector Model	SMA Male Connector
Shell Color	Black	Cable	174 Cable

5. Performance Parameters

Item	Characteristics	Unit
Frequency Range	824-960/1710-2690	MHz
Output Impedance	50	Ω
V.S.W.R.	< 2.5	
Gain	≥1	dBi
Polarization Mode	Vertical Polarization	
Radiation Pattern	Omnidirectional	
Maximum Input Power	5	W
Operating Temperature	-45 ~ +80	°C
Storage Temperature	-45 ~ +85	°C

6. Connector Specification

6.1 Material And Plating

No.	Part Name	Material	Coating	Remark
1	Inner Conductor	Brass	Gold Plating	
2	Insulator	PTFE		
3	Shell	Brass	Nickel Plating	

6.2 Electrical Performance

No.	Test Items	Specifications	Remark
1	Characteristic Impedance	50 Ω	
2	Temperature Range	-55 ~ +155 °C	
3	Frequency Range	0 ~ 3 GHZ	
4	Dielectric Strength	1000 V(rms)	
5	Contact Resistance	Inner Conductor ≤ 3 mΩ Outer Conductor≤ 2 mΩ	
6	Insulation Resistance	≥5000 MΩ	
7	V.S.W.R.	≤1.25 (Flexible Cable)	



7. Environmental Tests

Environmental Test Report

P/N				Specification		
Pilot Project	High Temperature, Low Temperature, Constant Humidity Test					
Test Equipment	Constant Temperature And Humidity Test Chamber Tests					
Test Standard	Metal surface plat defects; Non-meta deformation	allic parts	car	•	olouratio	n, cracks,
Test Name	Pilot Project	Request		Test Metho	od	Results
High Temperature Test	Temperature (°C) Test Sample Temperature Stabilization Time (h) Test Duration (h) Recovery Time (h)	85±3 1 2 1	cł	Test Procedule Put the test piece test chamber, are adjust the temper the high tempe namber to 75°C± monitor the ti After the test, leading for routine inspect	Qualified	
Low Temperature Test	Temperature (°C) Test Sample Temperature Stabilization Time (h) Test Duration (h) Recovery Time (h)	-45±3 1 2 1	th 40	Test Procedu Put the test piece test box, and the ne temperature of temperature book O°C±3°C, and mon time. After the test, le om temperature for routine inspe	Qualified	
Constant Damp Heat Test	Temperature (°C) Relative Humidity (%) Test Duration (h) Recovery Time (h)	+40±3 90-95 21 1	90-95 chamber to +40°C±3°C, the humidity is 90-95%, and monitor the time.			Qualified
Pilot Project	Free Drop Test					

Test Equipment	1 Metre High Tabletop			umber Of Tests		
Test Standard	•	In 1 metre high drop, the product does not fall off, cracks, and oth appearance of no deformation and other phenomen				
Test Name	Pilot Project	Request		Test Meth	od	Results
Free Drop Test	Drop Height 1000mm	Drop 2 Times On Both Sides	Test Procedure: a) Drop the test piece at a height of 1000mm and		Qualified	
Pilot Project		F	og Te	st		
Test Equipment	Mist Test N	lachine	N	umber Of Tests		
Test Standard			e plating is not peeling off; the appearance , oxidation and other undesirable phenome			
Test Name	Pilot Project	Reques	t	Test M	lethod	Results
Salt Mist Test	1.NaC1 Concentration: 2.Air Pressure: 3.PH Value: 4.Spray Volume: 5. Salt Water Test Temperature Setting a. Test Chamber Temperature: b.Pressure Drum Temperature: 6. Test Time:	Tes Ad spra re 40-60g/1kg 1.0±0.01kgf m2 6.5-7.2 1.0-2.0ml/80c/h 35±1°C 47±1°C 24H visua tes perfe		Adjust a spray test relevanconding b) Place the salt sprand leaved how with clear visually in test pied perform a spray test pied sperform a spray test pied	ter to the nt test tions. The DUT in pray tester e it for 24 urs. Test, rinse in water, ispect the	Qualified
Inspector:	A	uditor:		Approve		