



Shenzhen Kexin Wireless Technology Co., Ltd

Sample Certificate

SPECIFICATION OF APPROVAL

Customers

CUSTOMER: _____

PRODUCT NAME DESCRIPTION: GSM MEDIUM SOFT

BUILT-IN ANTENNA PRODUCT NAME NUMBER _____

PART NO: _____ KX-GSM-FPC-43-22 _____

Business Leader: Miss Huang 17376858871 _____

INNER SIGNATURE

Approved	engineering	Quality Assurance
Zhou Houming	Zhou Weiping	ZHANG Lu
YEAR MONTH DAY		

CUSTOMER APPROVAL

Confirm the result	engineering	Quality Assurance
☐ Pass ☒ Not qualified		
YEAR MONTH DAY		

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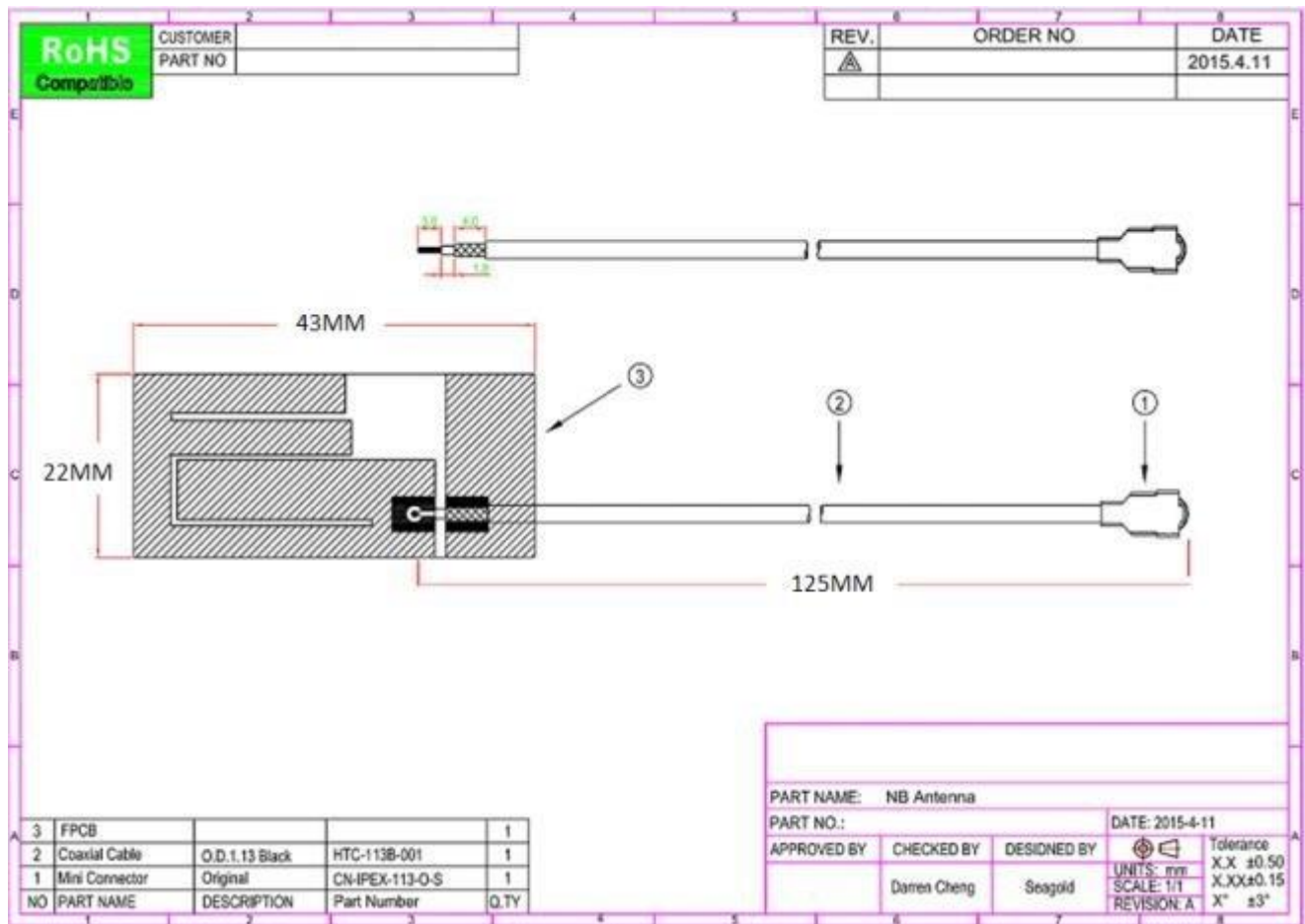
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1.Specification

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Version: 1.1

Issue



2.Characteristics and Reliability Test

Sample Photo	
	
A. Electrical Characteristics	
Frequency	824-960 MHz & 1710-2170 MHz
S.W.R.	≤ 3.0 @ 824-960 MHz ≤ 3.5 @ 1710-1990 MHz
Average Gain	-1.0 ~ 1.0 dBi @ 824-960 MHz -1.0 ~ 0.5 dB @ 1710-2170 MHz
Polarization	Linear
Impedance	50 Ohm
Antenna Type	Dipole
B. Material & Mechanical Characteristics	
Material of Radiator	FPC
Cable Type	O.D. 1.13 mm (Black)
Connector Type	Mini Connector for O.D. 1.13 mm Coaxial Cable
Pull Test	≥ 1.0 Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

3. Antenna - S Parameter Test Data

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

4. Antenna - Radiation Pattern Test Data

