



Tengxiang Technology.Inc

Product Number: TX-AN2400-0301SM-B

Product Name: Antenna

Specification For Approval

Customer: MS _____

Customer P/N: / _____

Tengxiang P/N: TX-AN2400-0301SM-B _____

Description : Antenna _____

Tengxiang Checked By:	Customer Approved By:



Tengxiang Technology.Inc

SHA QU NO. 8 Industrial Sha-Tou Administration Zone, Chang-An Town, Dong-Guan City, Guangdong Province, China

TEL:86-769-81873082 FAX:86-769-82663788

<http://www.tenxiang.cn>

Product Number: TX-AN2400-0301SM-B

Product Name: Antenna

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	<= 2.0
Antenna Gain	3.0dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	CU
Material of Plastic	Body: TPE Hinge: ABS Holder: ABS
Cable Type	RG-178
Connector Type	RP-SMA
Connector Pull Test	>= 5 Kg
Connector Torque Test	300 ~ 1000 g.cm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C



2. Characteristics and Reliability Test

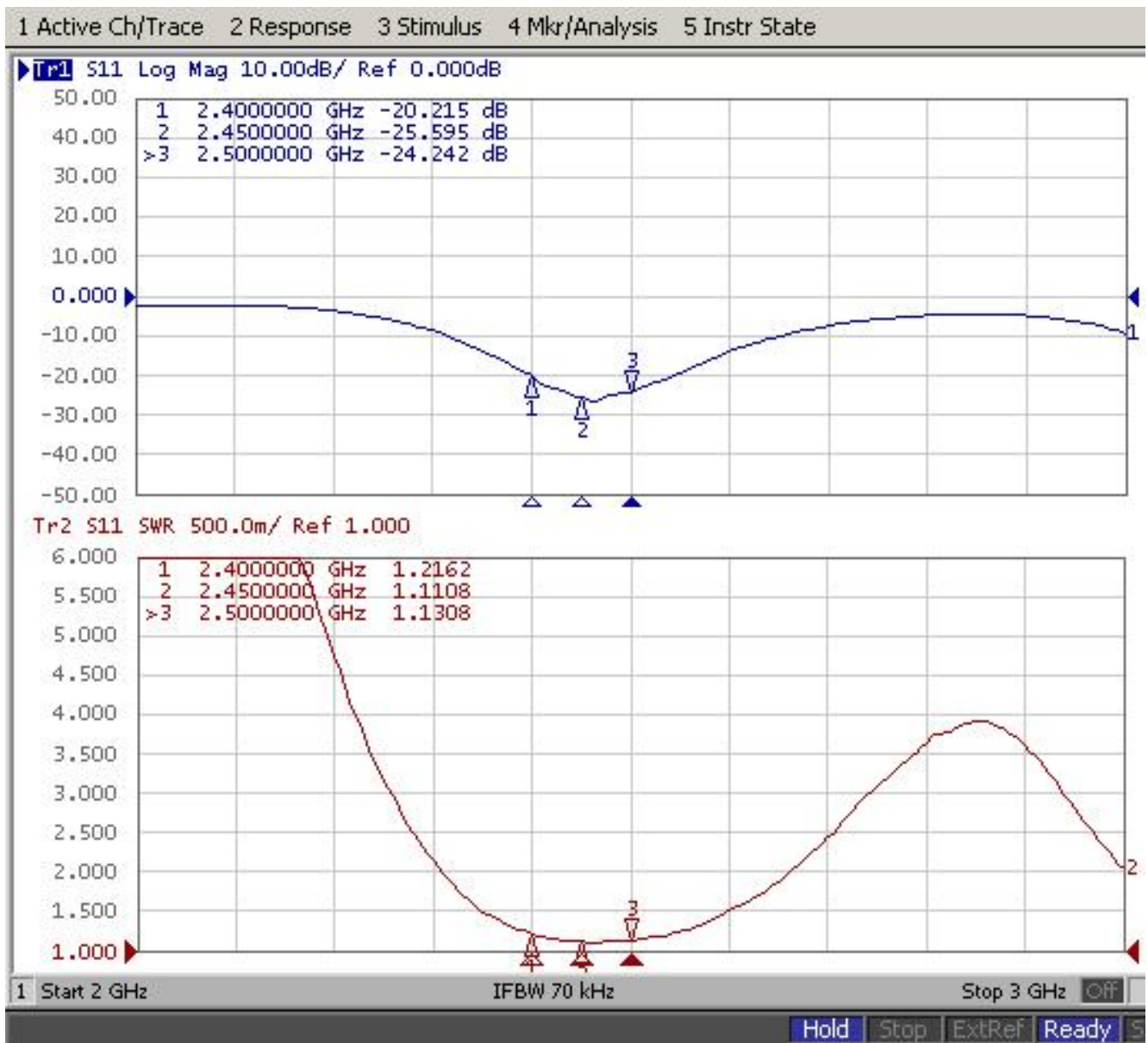
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 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	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	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

Product Number: TX-AN2400-0301SM-B

Product Name: Antenna

			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

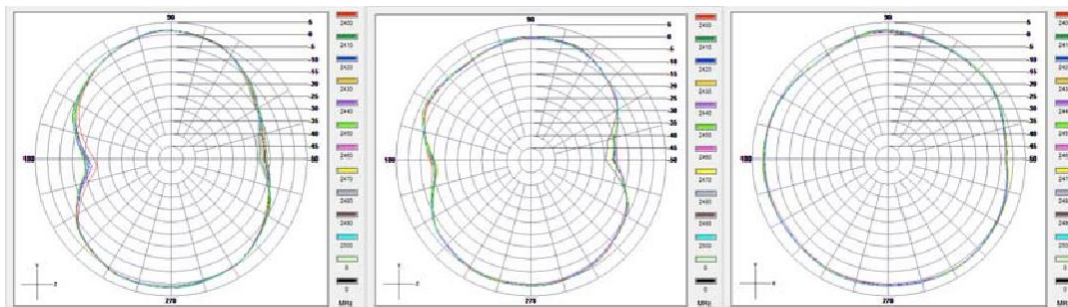
3. Antenna - S Parameter Test Data



Product Number: TX-AN2400-0301SM-B

Product Name: Antenna

4. Testing Equipment Specification

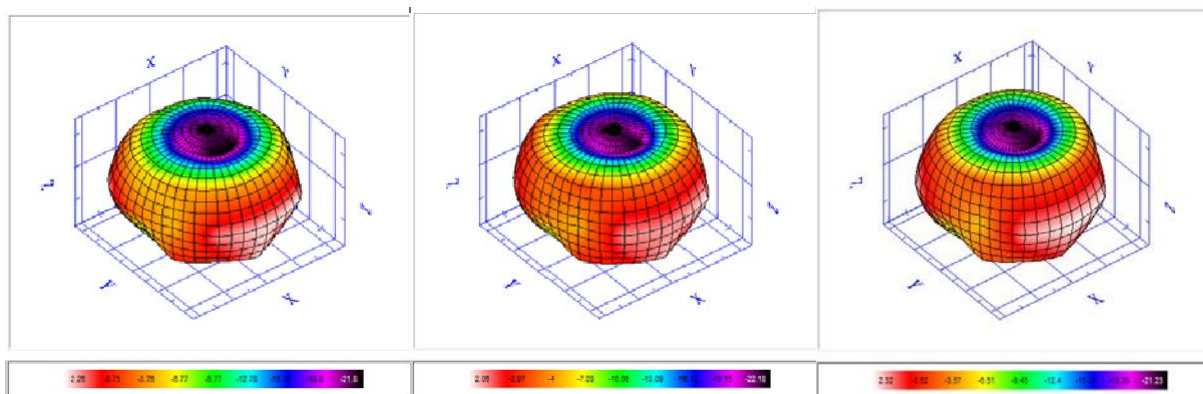


Frequency	2400	2450	2500
TRP (dBm)	-0.71	-0.83	-0.7
Peak EIRP (dBm)	2.32	2.06	2.26
NHPRP +/- 45 (degree)	-0.86	-0.93	-0.81
NHPRP +/- 30 (degree)	-1.11	-1.27	-1.19
E-Theta Peak Gain (dBi)	-12.34	-14.91	-14.07
E-Phi Peak Gain (dBi)	2.31	2.03	2.25
E-Total Peak Gain (dBi)	2.32	2.06	2.26
Directivity (dBi)	3.03	2.89	2.95
Efficiency (%)	84.92	82.69	85.15

2500MHZ

2450MHZ

2400MHZ



4. Mechanical Drawing

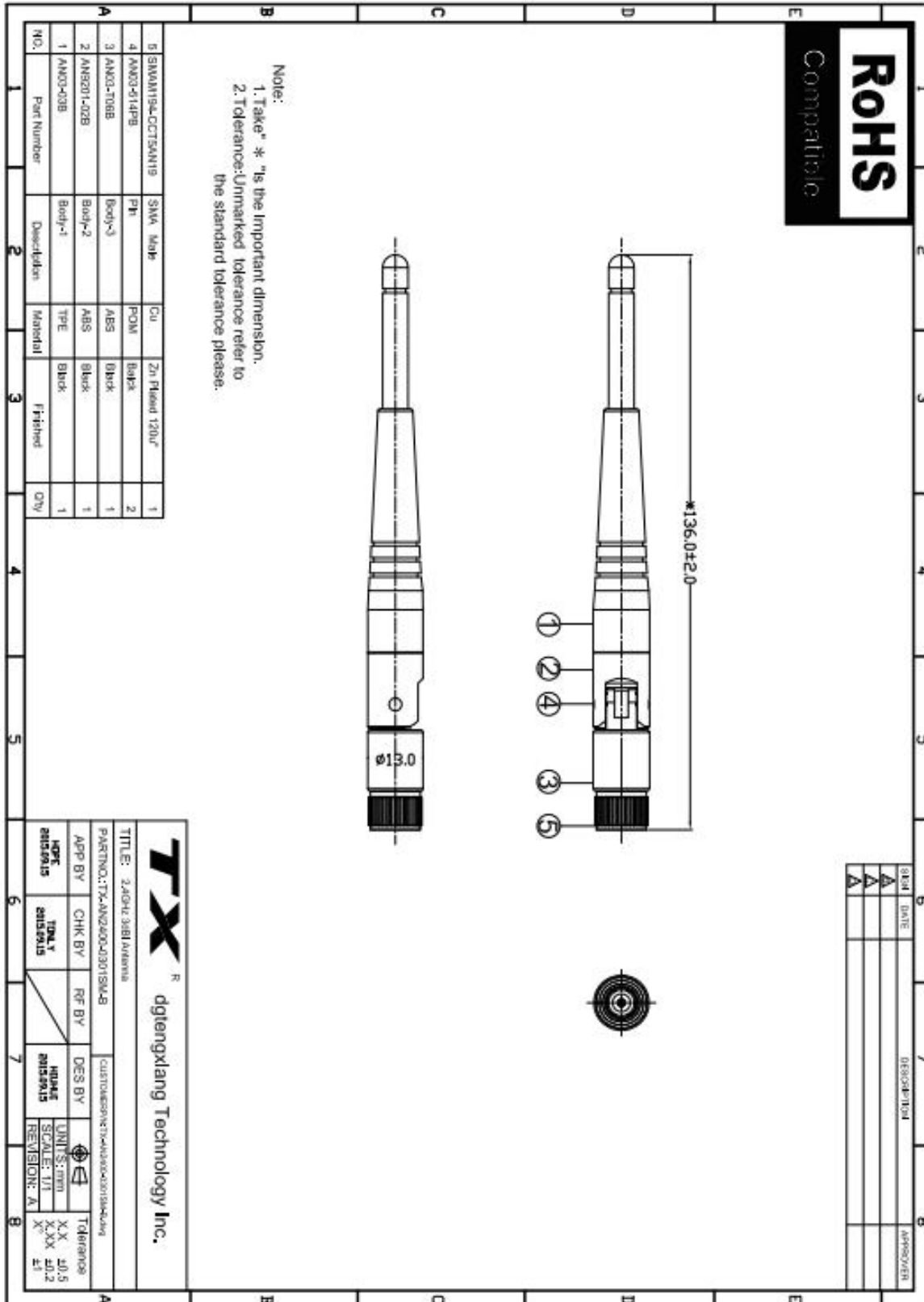
See attached files

5. Material Description and RoHS Test Report

See attached files

Product Number: TX-AN2400-0301SM-B

Product Name: Antenna



Product Number: TX-AN2400-0301SM-B

Product Name: Antenna

產品包裝規範

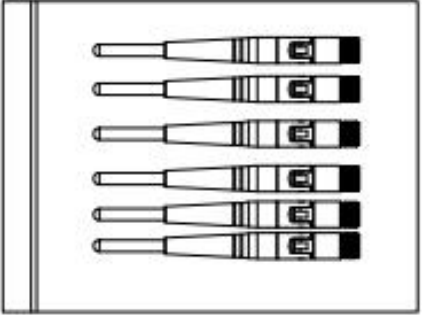
PACKING CRITERION

Date: 2015.9.15

Page: 1 of 1

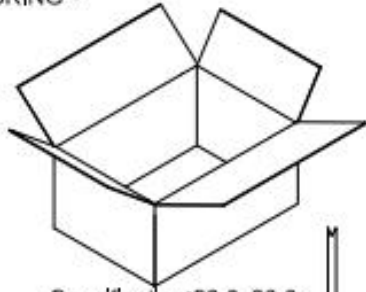
Part Number :TX-AN2400-0301SM-B	Revision : B
Name: 2.4G 3dBi Antenna	Customer : ALL

1.Enter the bag .

20PCS/ bag

2.PACKING .

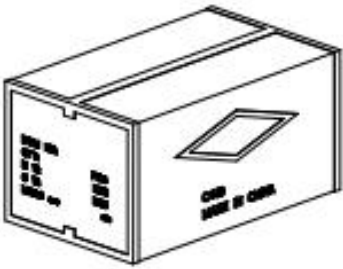


Specification:29.0x23.0x32.5cm 1000PCS/BOX



Cardboard :50pcs/BOX

3. SEALING .



SIDE



FRONT



APPROVED BY : _____ CHECKED BY : _____ DESIGNED BY : DCH