

Shenzhen Qixintongda Communication Technology Co.,Ltd.

# Antenna Specifications

<b>Model</b>	Watpro				
<b>client</b>					
Specification Description					
	<b>product content</b>	<b>Specification</b>	<b>customer material code</b>		
	GSM+WCDMA Antenna	FPC			
	bluetooth antenna	Φ0.8*25mm			
change resume					
<b>serial number</b>	<b>date</b>	<b>Version</b>	<b>Brief description of the changes</b>		
1	2022-09-06	V1.0	new project		
2					
3					
Supplier sample confirmation					
<b>research and development</b>	<b>structure</b>	<b>audit</b>	<b>determination</b>		
			PASS <input checked="" type="checkbox"/> FAIL <input type="checkbox"/>		
Customer sample confirmation					
<b>Electronic</b>	<b>structure</b>	<b>project</b>	<b>purchase</b>	<b>quality</b>	<b>audit</b>
<b>Reasons for rejection or other considerations:</b>					

# 1、Electrical performance test report

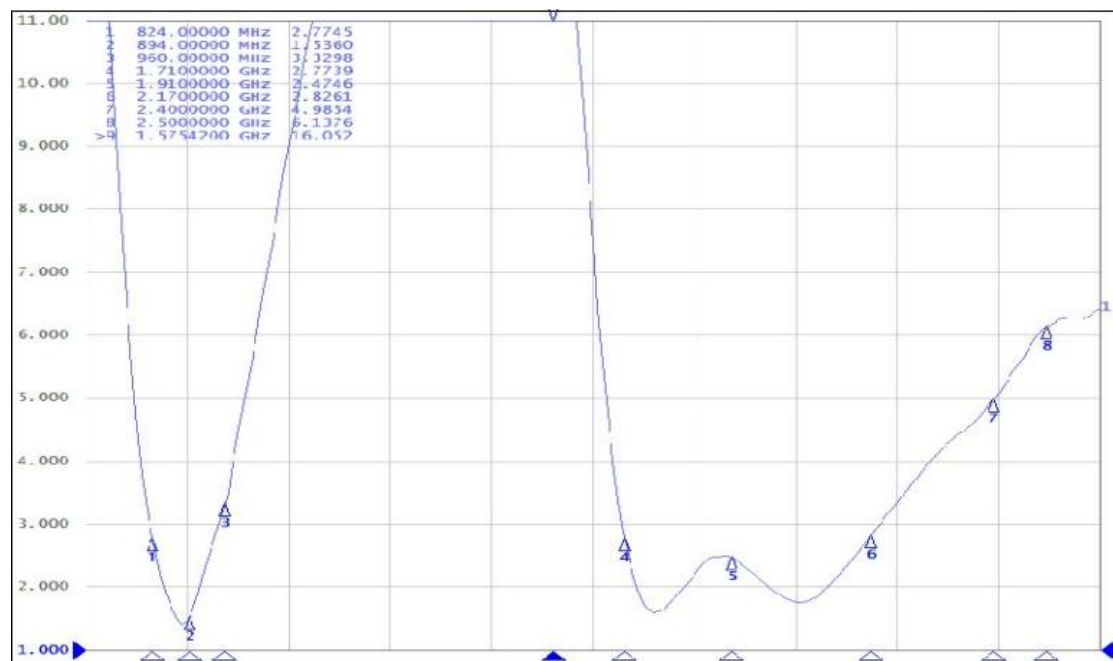
## 1.1 Test items and equipment

	Test items	equipment
1. Passive testing	1. VSWR parameter 2. Return loss parameter	Network Analyzer: HP 8753D 3D Darkroom Antenna Test System (ETStest system, Network Analyzer, Tester)
2. Active test	1. transmit power 2. receive level 3. Receive sensitivity	Tester : Agilent E5515C 3D Darkroom Antenna Test System (ETStest system, Tester )

## 1.2 GSM Passive Test Report

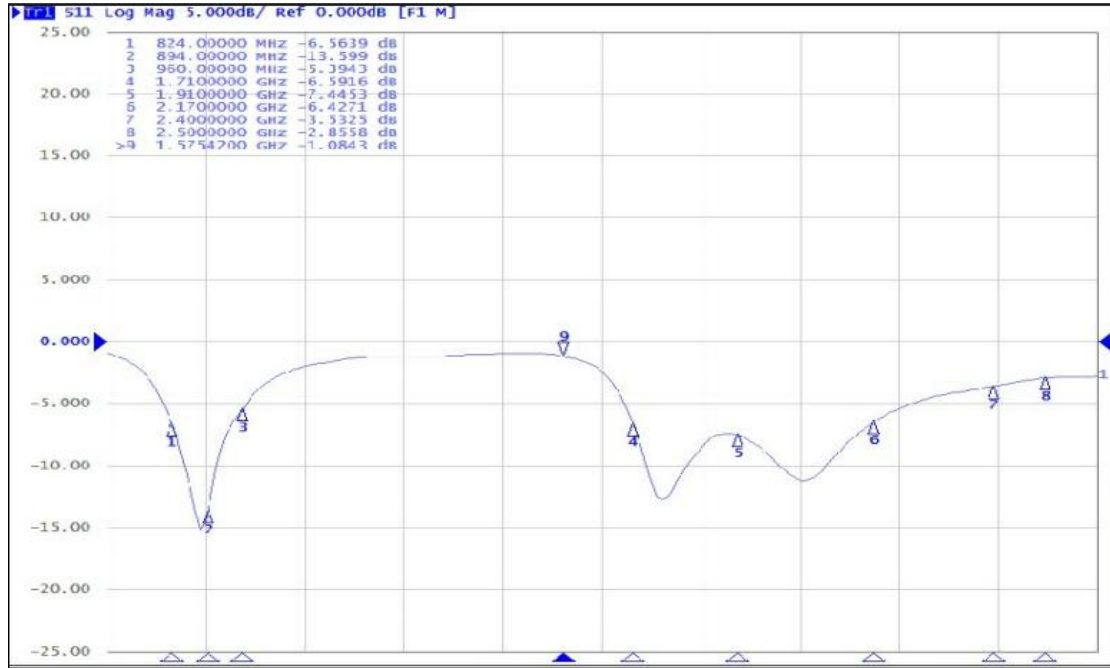
VSWR parameter value

frequency(MHZ)	824	960	1710	1990
RL	2.7	3.3	2.7	2.4



Return loss parameter value

frequency(MHZ)	824	960	1710	1990
RL	-6.5	-5.3	-6.5	-7.4



## 2、 Matching Circuit Description

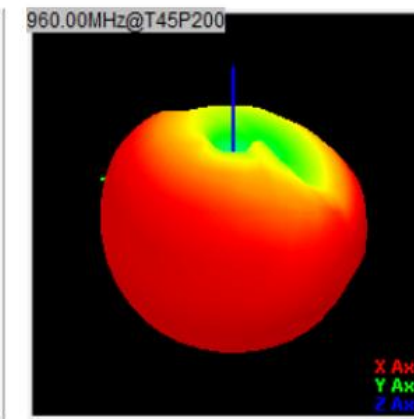
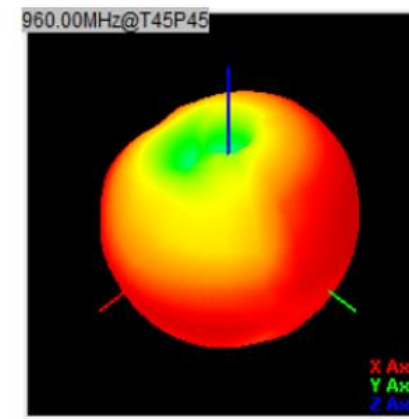
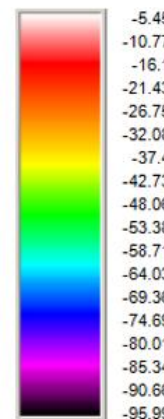
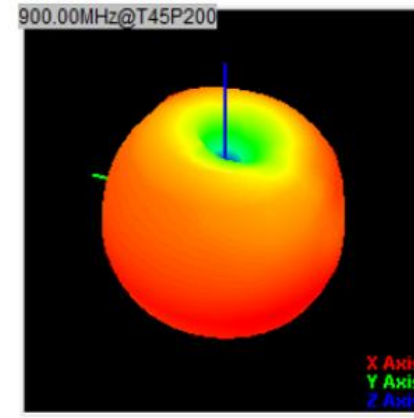
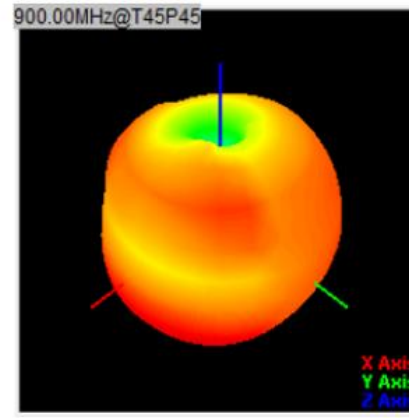
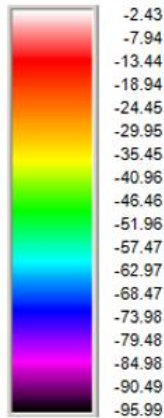
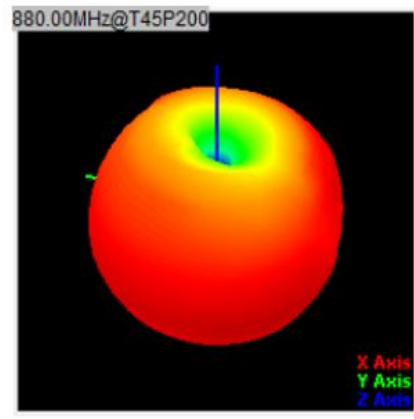
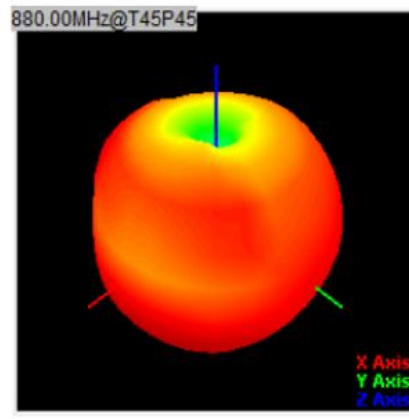
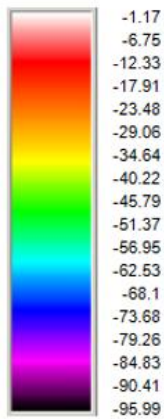
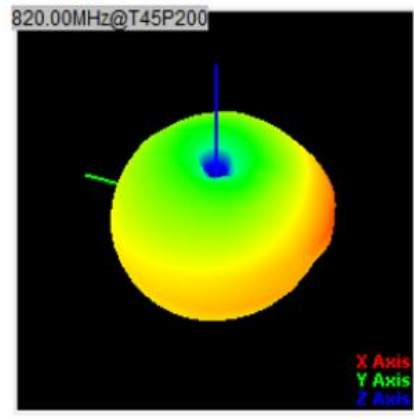
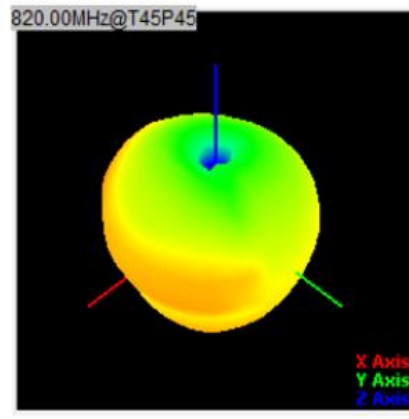
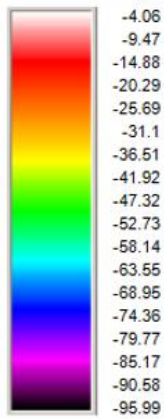
No changes have been made to the original matching circuit of your company.

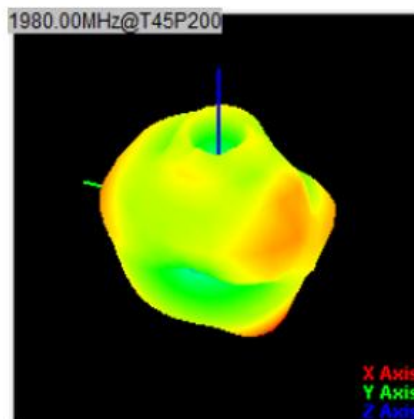
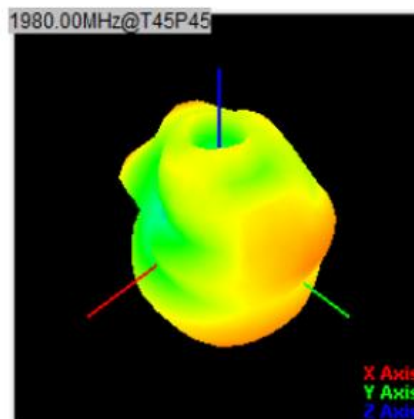
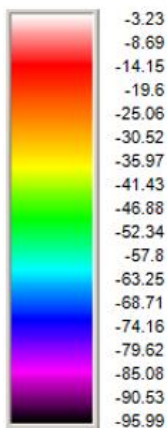
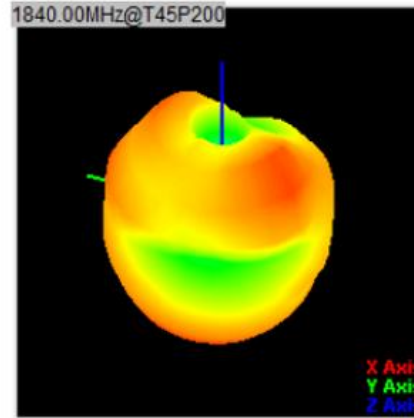
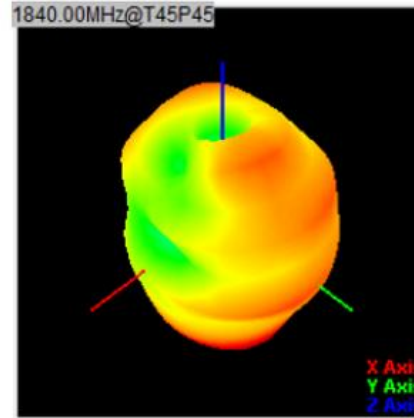
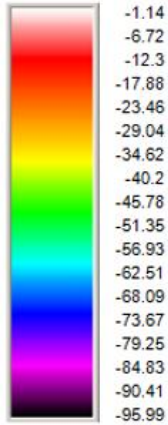
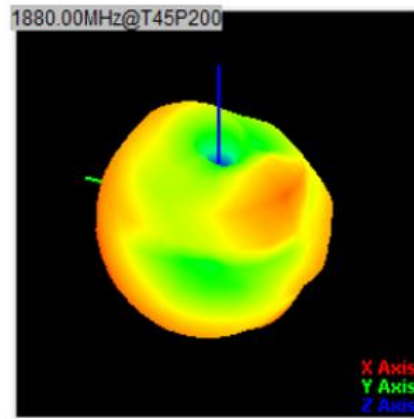
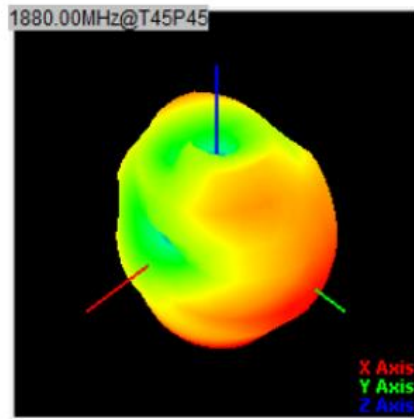
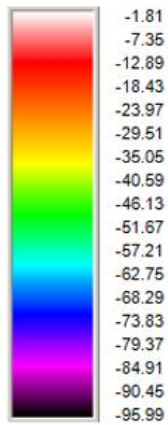
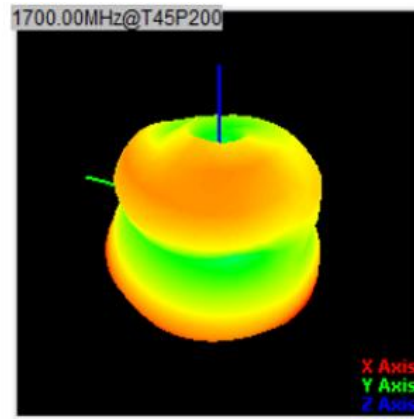
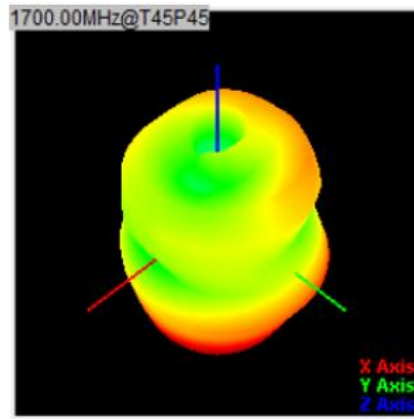
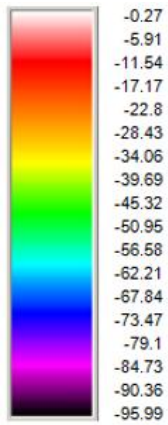
## 3、 testing report

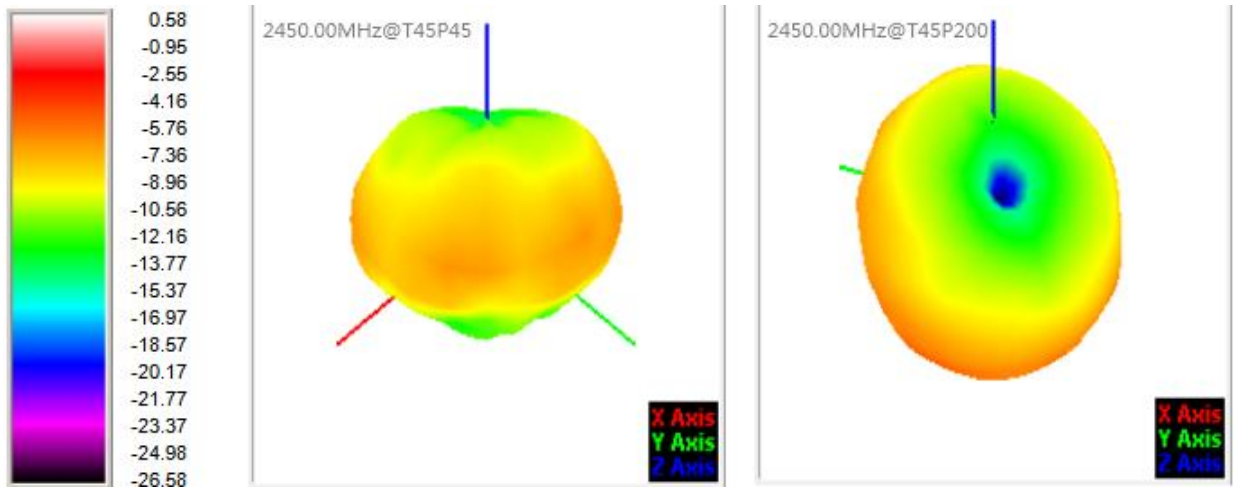
	GSM900			DCS1800		
Channel	1	62	124	512	698	885
TIS			-100.15			-104.18
	GSM850			PCS1900		
Channel	128	192	251	512	661	810
TIS			-102.57			-103.16
	WCDMA850			WCDMA1900		
Channel	4357	4408	4458	9662	9800	9938
TIS			-104.55			-105.78

## 4、 Antenna Gain:

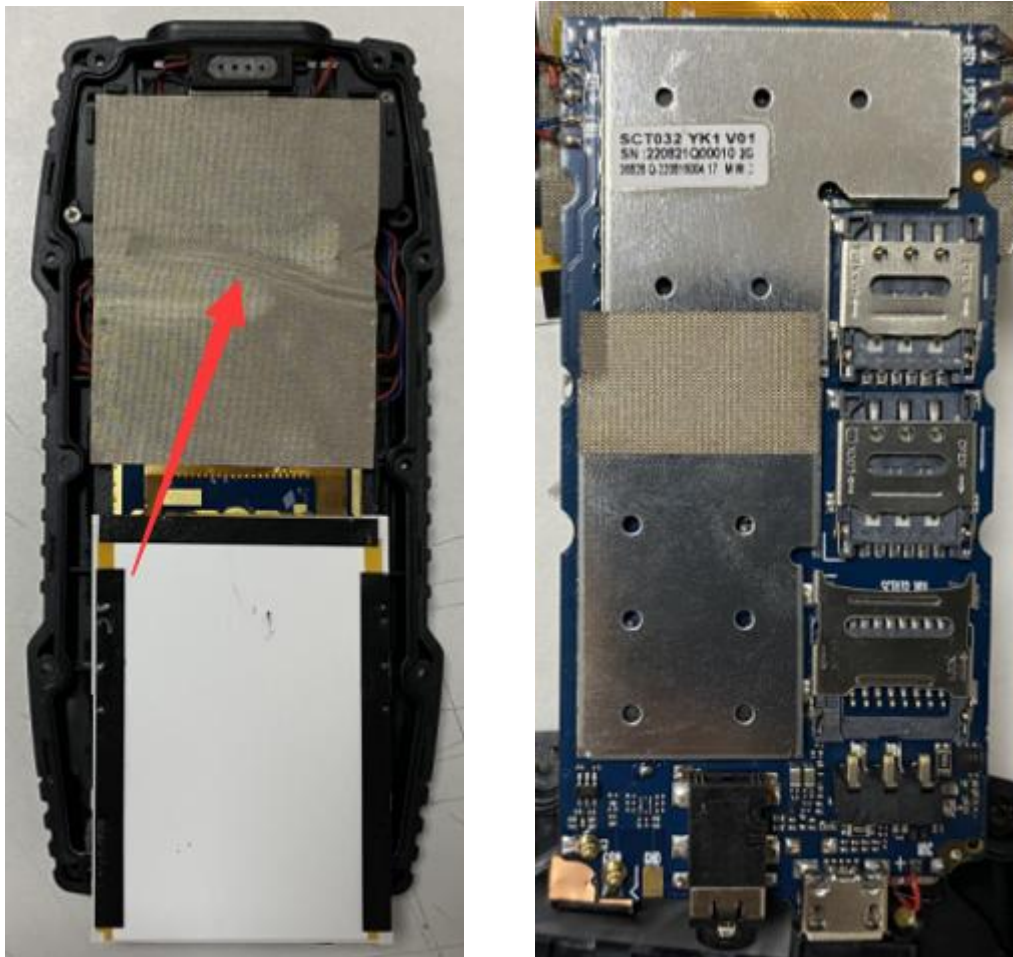
Frequency (MHz)	Gain (dBi)
850/WCDMA850 (824MHz~894MHz)	-0.15
900 (880MHz~960MHz)	-0.17
1800 (1710MHz~1800MHz)	-0.85
1900/WCDMA1900 (1850MHz~1990MHz)	-1.05
BT (2400MHz~2500MHz)	-0.85







## 5、 Environmental treatment

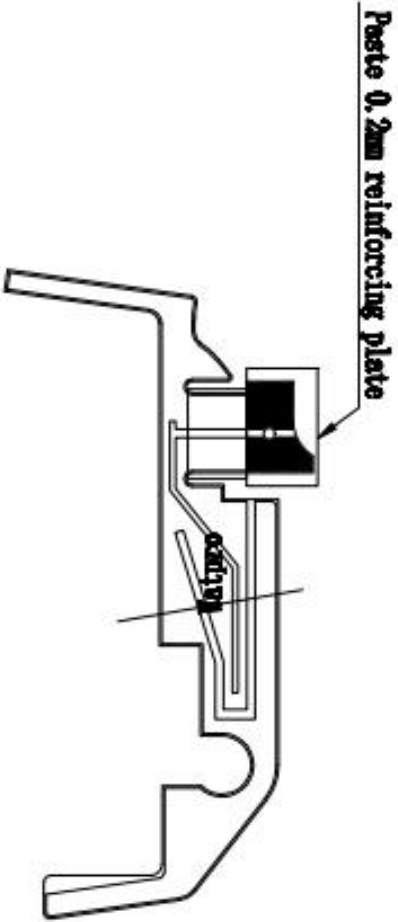


Do it according to the prototype environment given by your company

## 6、 Structural drawings




	物料名称	物料号	修改日期



**NOTES:**

1. The oblique line filling part is Copper-Clad Electrical wiring;
2. Red is the outline. Pay attention to the edge size
3. Material property: electrolytic copper, half to half material thickness of 0.05mm: (stick it on the back of the rear shell to assure its viscosity)
4. Adhesive type: 3m-9571e imported adhesive;
5. Gold / nickel plating 3 ~ 5u" on the surface of gold finger;
6. The protective film is dark black / dark white;
7. The overall thickness shall be less than or equal to 0.2mm
8. Only the product is allowed to conduct electricity;

Shenzhen railroads communication equipment Co., Ltd			
 Company name: Railgao PFC		Outline	
general tolerances I 10, 5 II 10, 25 III 10, 65		Material: PI	Standard
SURFACE I ± 0, 5°		Surface Treatment: Oxdum Blank	Coefirm Billiton A

