

# SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

Shenzhen Strongpower Communication Co., Ltd.

Room 502, building W2-A, Gaoxin South Fourth Road, Nanshan District,

Shenzhen city

## 330 Bluetooth Aatenna SPECIFICATION

Customer	TRANSSION	Frequency Band	2402MHz-2480MHz
Model	330		
Serial No		Color	
RF designer	Zou Lijun	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2023/03/10

Confirm by customer:

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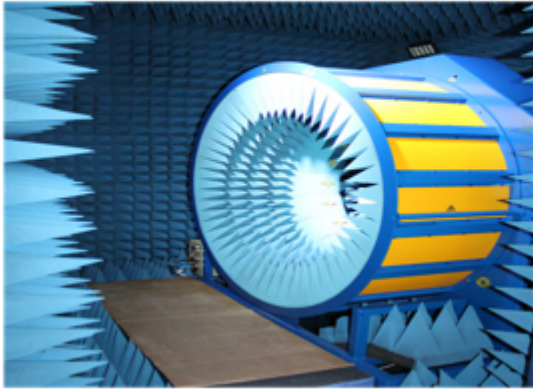
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Confidentiality requirements

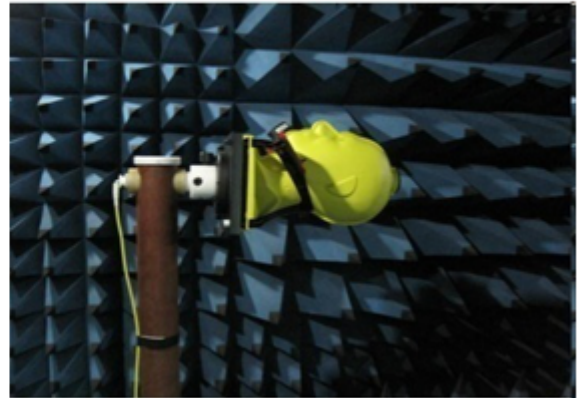
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## 1. The Equipment of Active&Passive Test

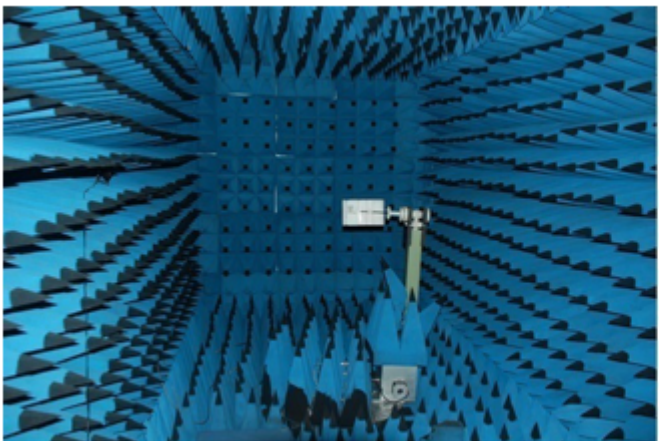
# chamber



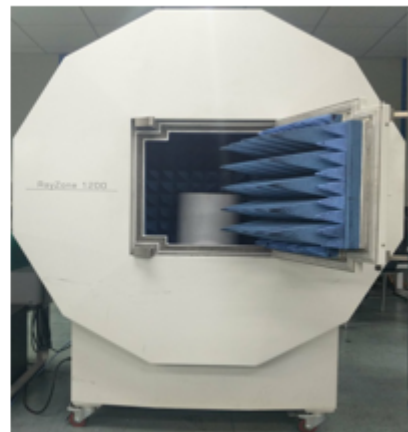
Satimo



Airlink



Guang Ping



GTS

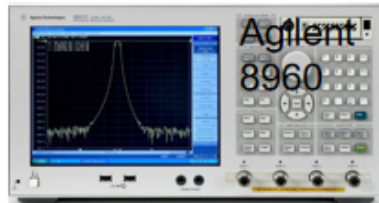
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# equipment



R&S  
CMW500



Agilent  
8960



Anritsu  
MT8820C



Agilent  
N4010A



Agilent  
E4438C  
Signal  
Generator



Agilent  
E5071C



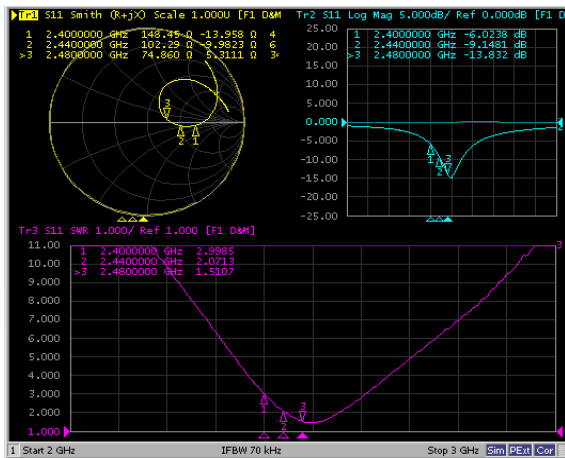
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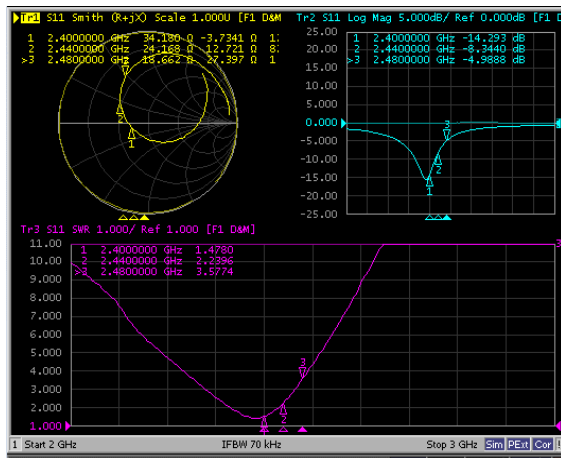
## 2. Passive Test

### 2.1 S Parameters, VSWR, Return loss, Smith Chart

R



L



### 2.2 Passive Efficiency and Gain

R

Frequency (MHz)	Efficiency%	Efficiency (dB)	Gain (dBi)
2400	63%	-1.99	2.01
2410	65%	-1.90	1.81
2420	64%	-1.92	1.80
2430	64%	-1.94	1.82
2440	61%	-2.12	1.59
2450	65%	-1.90	2.07
2460	67%	-1.74	2.16
2470	61%	-2.14	1.80
2480	66%	-1.83	2.06

L

Frequency (MHz)	Efficiency %	Efficiency (dB)	Gain (dBi)
2400	48%	-3.17	0.04
2410	53%	-2.78	0.69
2420	53%	-2.75	0.50
2430	54%	-2.66	0.74
2440	53%	-2.74	0.79

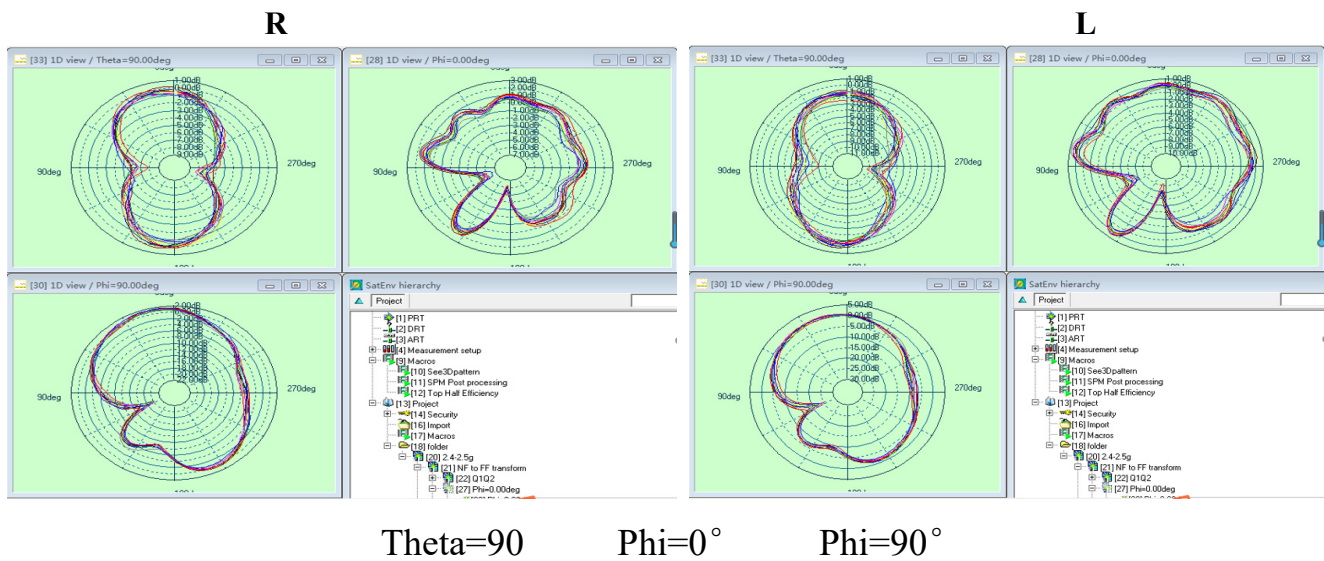
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Confidential Information

2450	56%	-2.52	1.09
2460	58%	-2.34	1.23
2470	54%	-2.64	0.72
2480	56%	-2.48	1.06
average value	54.08%	-2.67	0.76

### 2.3 Passive pattern



### 3.Active test

#### 3.1 TRP&TIS

**FS-R**

信道 CH	TRP (dBm)	TIS (dBm)
0	7.25	-89.26
39	6.39	-88.78
78	6.57	-88.86

**HR**

信道 CH	TRP (dBm)	TIS (dBm)
0	0.44	-83.87
39	0.66	-83.41
78	-0.53	-82.37

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**FS-L**

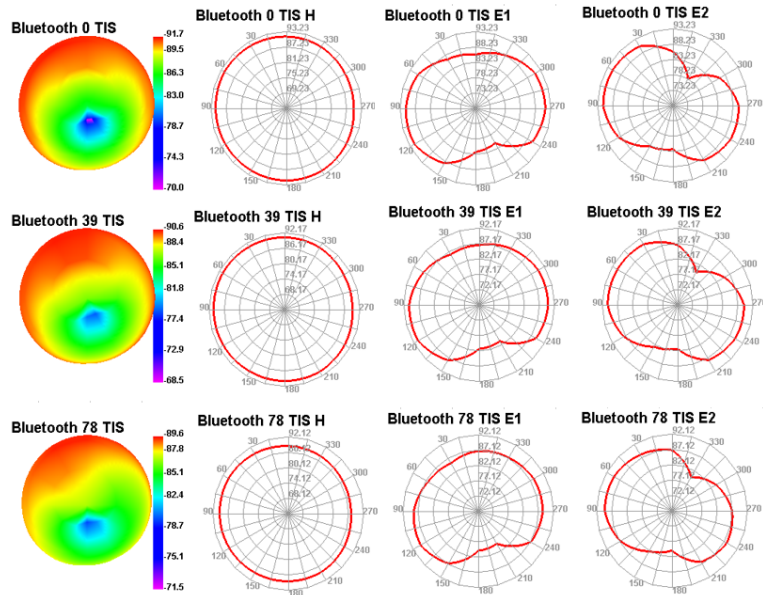
信道 CH	TRP (dBm)	TIS (dBm)
0	7.93	-89.79
39	7.68	-88.74
78	6.49	-88.38

**HL**

信道 CH	TRP (dBm)	TIS (dBm)
0	-1.96	-82.16
39	-0.93	-81.28
78	-2.36	-80.86

**3.2 Active pattern  
Left**

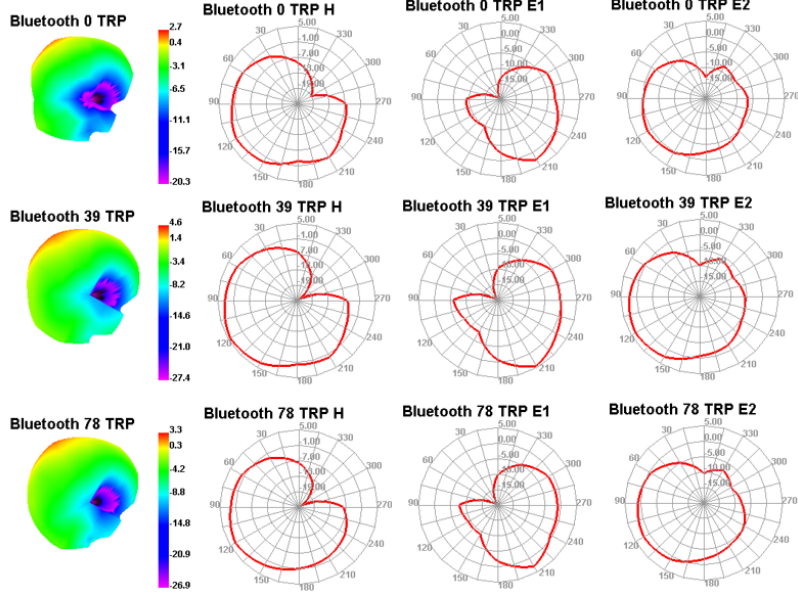
**FS-L**



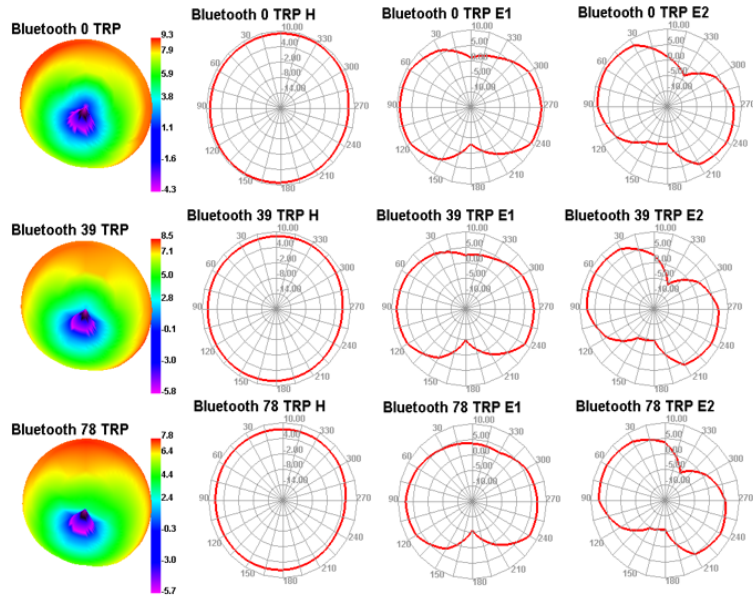
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HL



FS-R

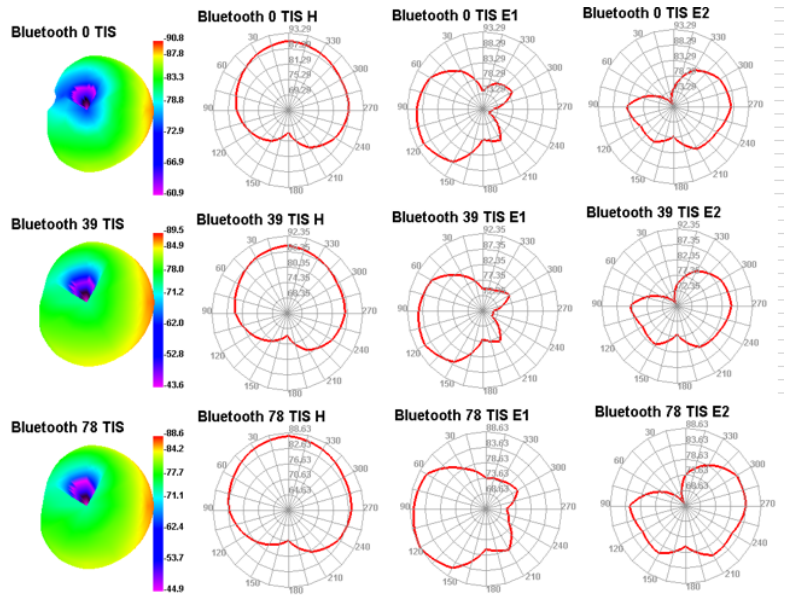


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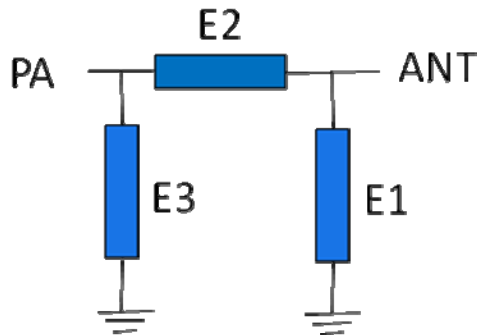
HR



#### 4. Matching Circuit

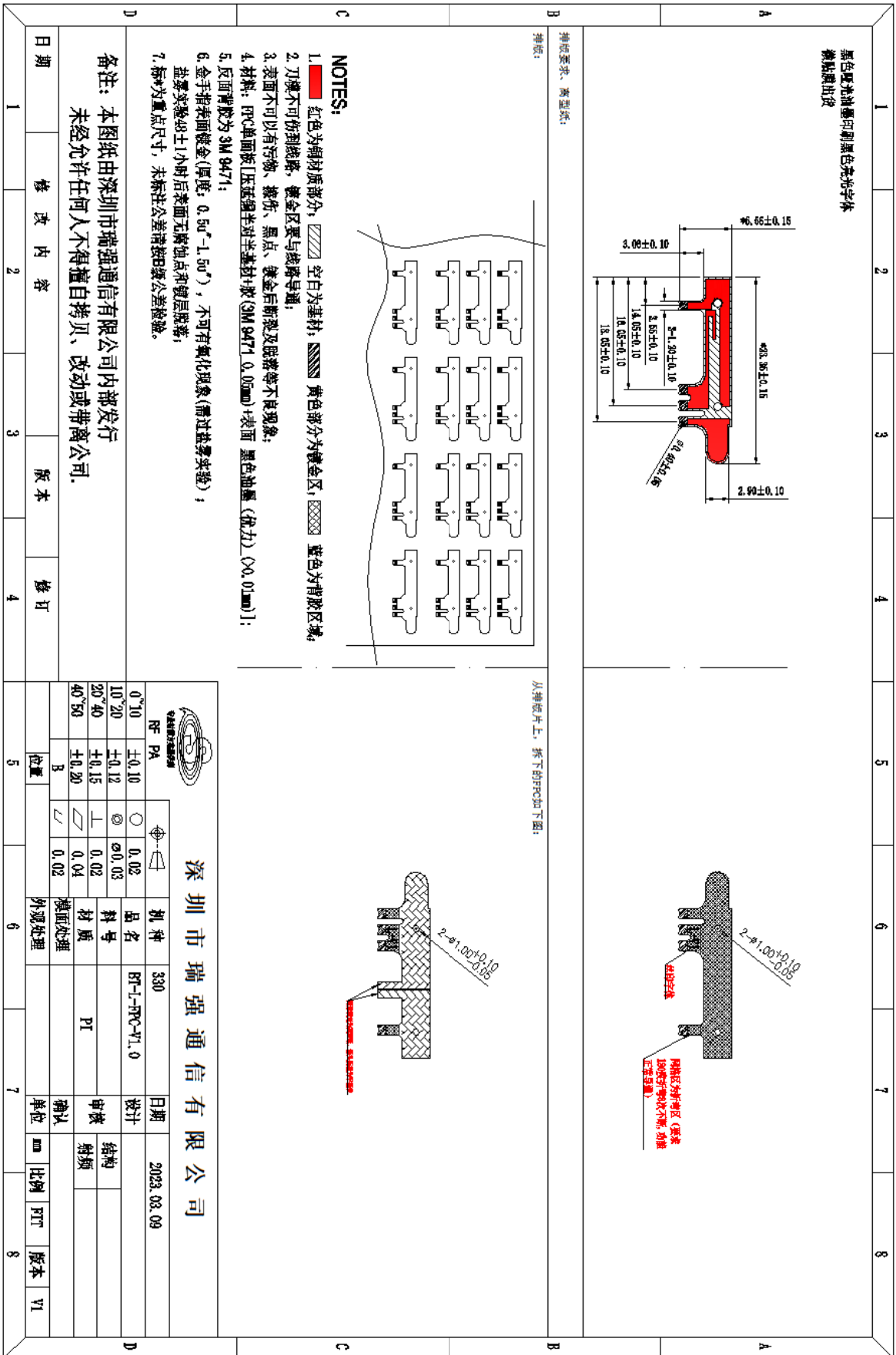
Left&Right are the same

Element	E1	E2	E3
Value	NC	0 Ω	NC



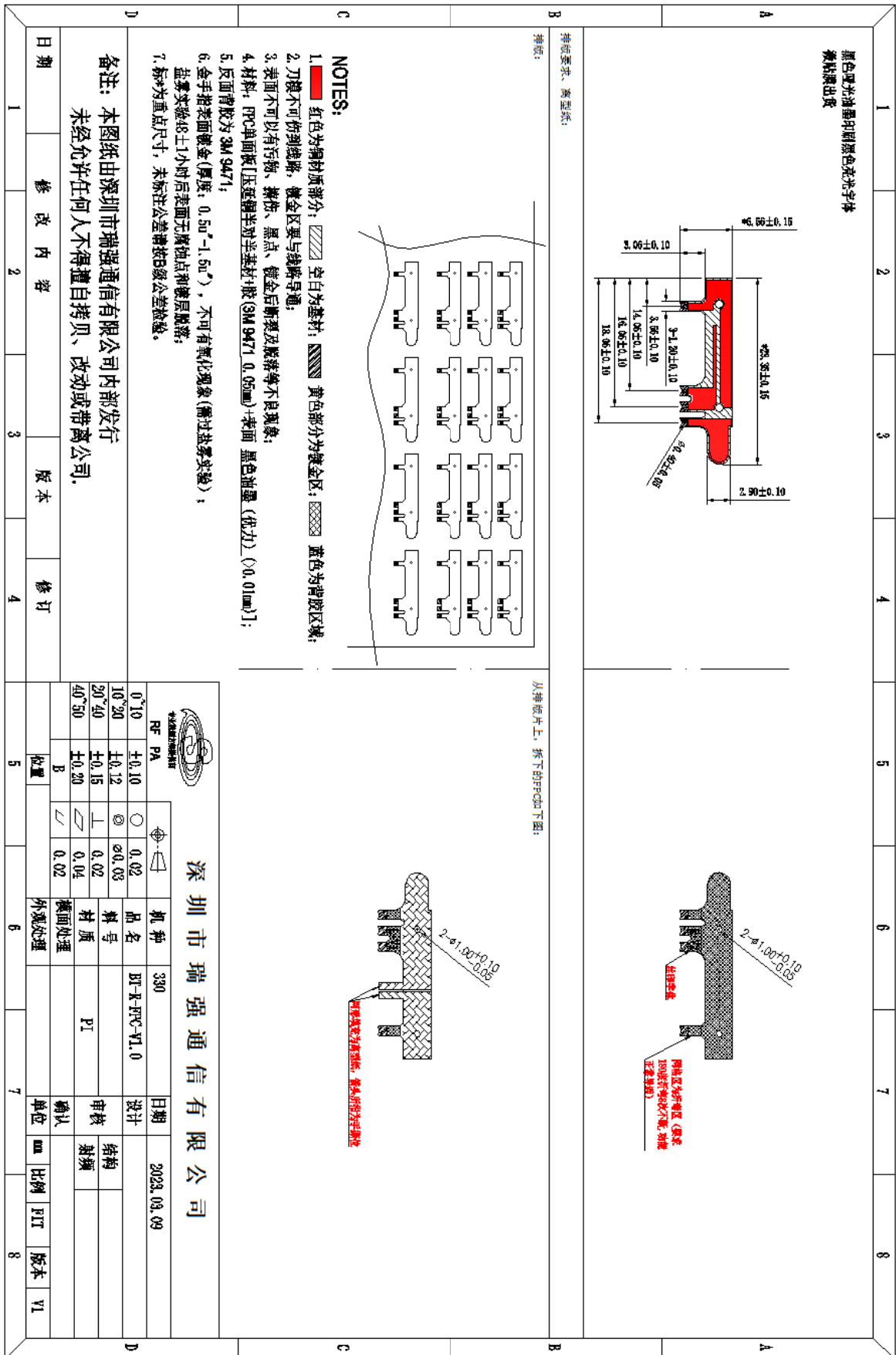
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