

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo., Ltd. 330S Bluetooth Aatenna SPECIFICATION

Customer	TRANSSION	Frequency Band	2402MHz-2480MHz
Model	330S		
Serial No		Color	
RF designer	Zou Lijun	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2024/03/9

Confirm by customer:

INDEXES

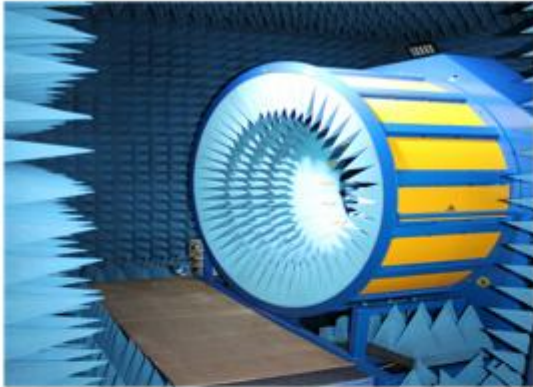
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Confidentiality requirements

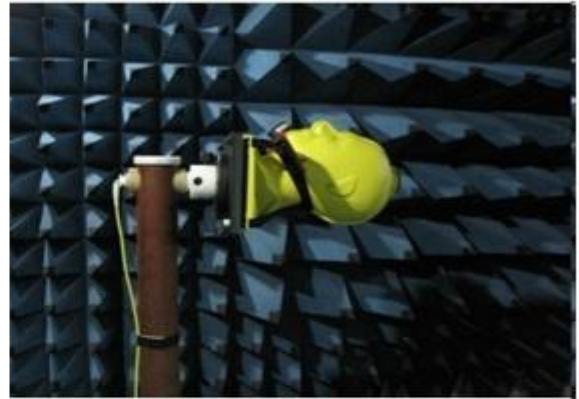
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1. The Equipment of Active&Passive Test

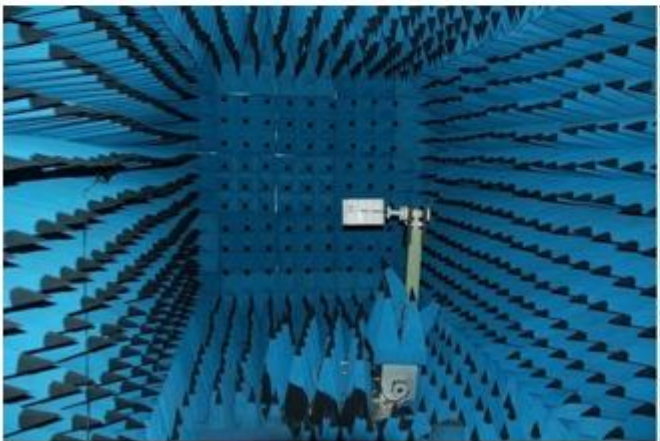
chamber



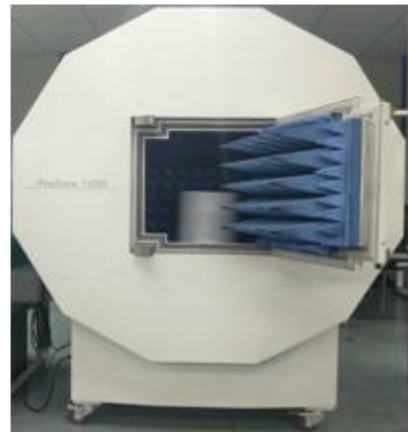
Satimo



Airlink



Guang Ping

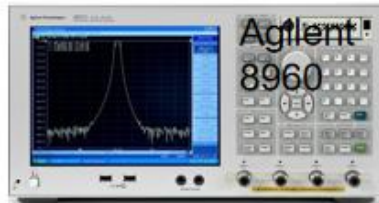


GTS

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equipment

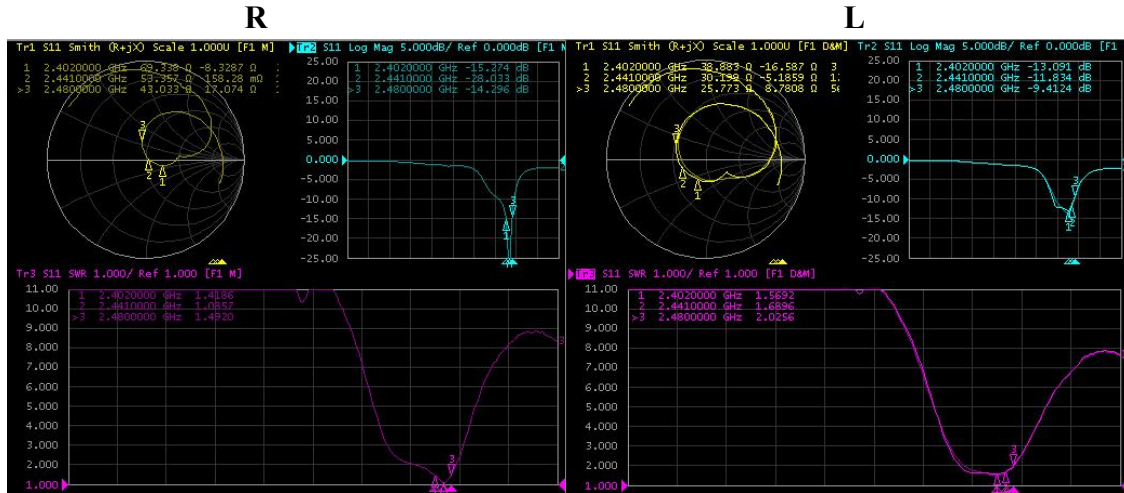


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2. Passive Test

2.1 S Parameters, VSWR, Return loss, Smith Chart



2.2 Passive Efficiency and Gain

R

Frequency (MHz)	Efficiency%	Efficiency (dB)	Gain (dBi)
2400	45.81%	-3.39	0.99
2410	45.94%	-3.38	1.03
2420	44.78%	-3.49	0.95
2430	43.58%	-3.61	0.85
2440	41.60%	-3.81	0.67
2450	40.29%	-3.95	0.58
2460	38.41%	-4.16	0.42
2470	35.39%	-4.51	0.09
2480	32.88%	-4.83	-0.18

L

Frequency (MHz)	Efficiency %	Efficiency (dB)	Gain (dBi)
2400	33.81%	-4.71	-0.18
2410	33.23%	-4.78	-0.22
2420	31.51%	-5.02	-0.42
2430	30.18%	-5.20	-0.58
2440	28.46%	-5.46	-0.77
2450	26.98%	-5.69	-0.91

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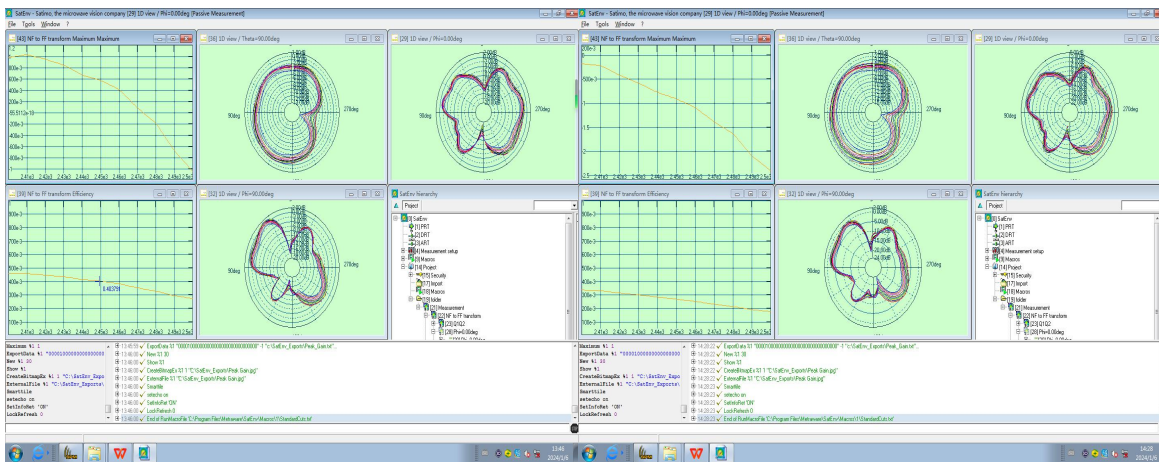
Confidential Information

2460	25.26%	-5.98	-1.09
2470	23.19%	-6.35	-1.39
2480	21.44%	-6.69	-1.63

2.3 Passive pattern

R

L



Theta=90 Phi=0° Phi=90°

3.Active test

3.1 TRP&TIS

FS-R

信道 CH	TRP (dBm)	TIS (dBm)
0	7.06	-89.19
39	6.6	-88.86
78	6.72	-88.96

HR

信道 CH	TRP (dBm)	TIS (dBm)
0	-2.14	-81.68
39	-2.43	-81.37
78	-2.87	-80.79

FS-L

信道	TRP	TIS

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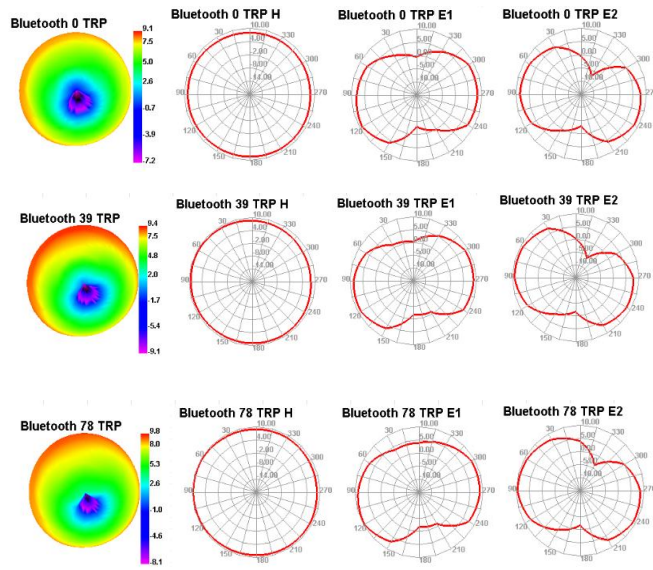
CH	(dBm)	(dBm)
0	6.9	-89.79
39	7.25	-88.74
78	7.64	-88.38

HL

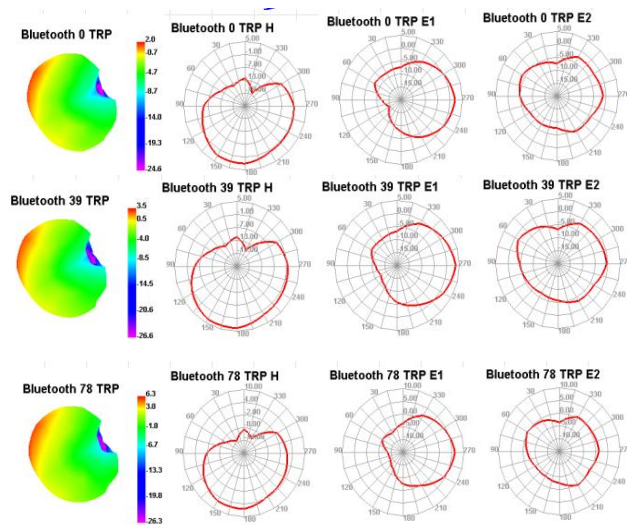
信道 CH	TRP (dBm)	TIS (dBm)
0	-2.55	-82.48
39	-2.36	-81.97
78	-2.04	-81.66

3.2 Active pattern
Left

FS-L



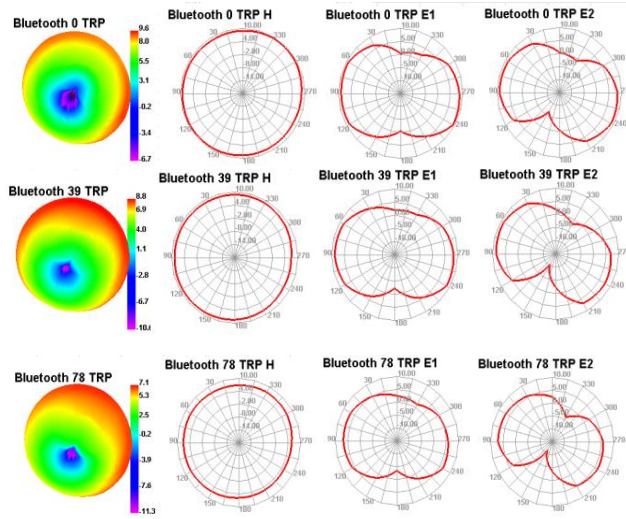
HL



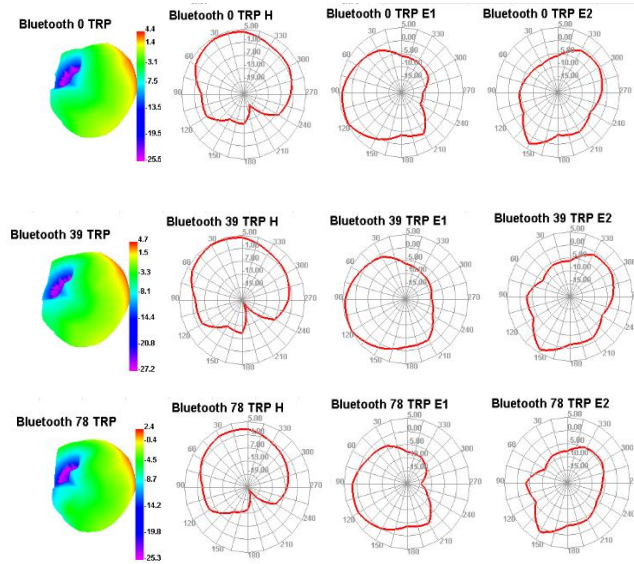
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FS-R



HR



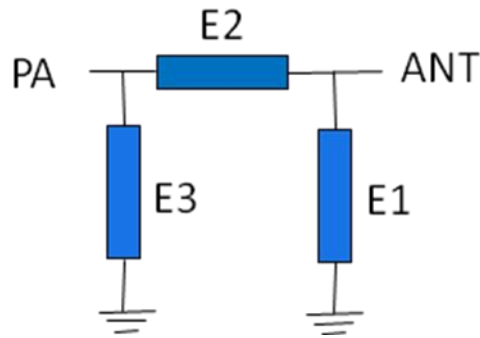
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4. Matching Circuit

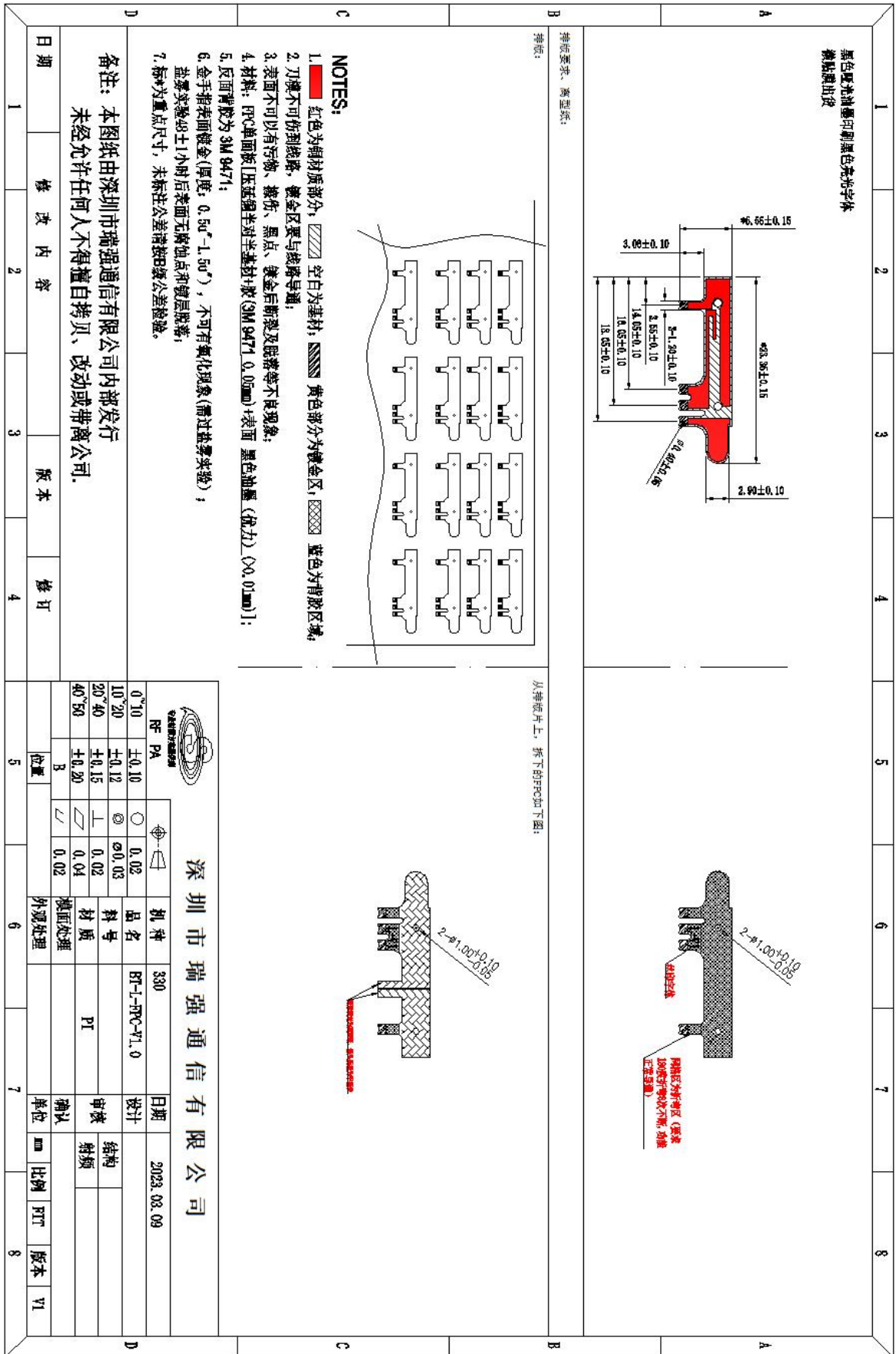
Left&Right are the same

Element	E1	E2	E3
Value	NC	0 Ω	NC



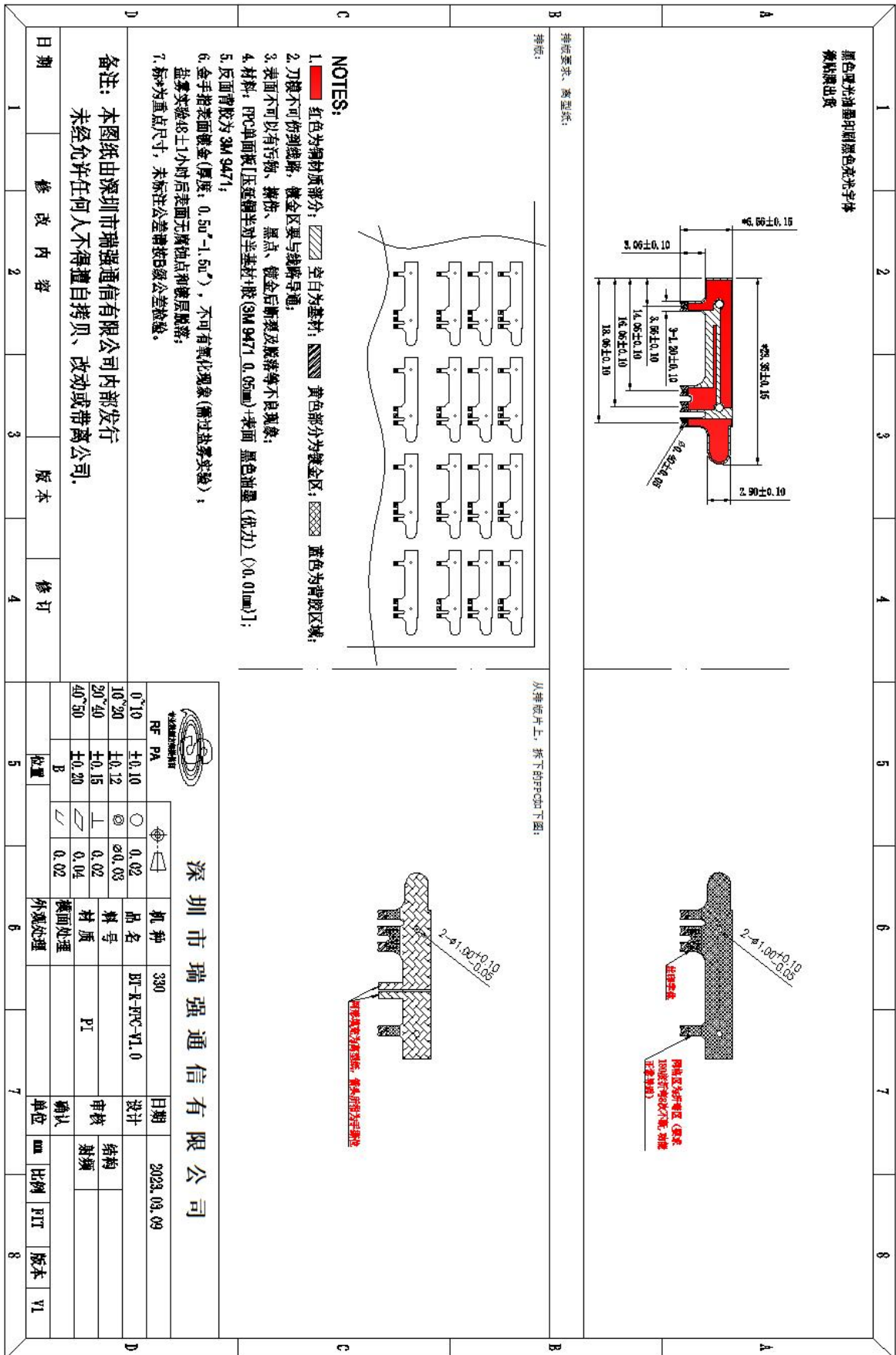
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