



Certificate of Acknowledgment

Customer : 茂傑

Product : 5G External Antenna Black Plastic
Housing 1.13 Black Cable L=200mm IPEX 1

Model :

Part Number : NF2-2Z0084-RS

Written By :

Issued Date : 2026/01/08

CUSTOMER

ENGINEER R&D DEPT	QUALITY DEPT	APPROVED

Free Walk

WRITTEN BY	ENGINEER R&D DEPT	APPROVED
shali. Chen	Bing. Yang	zhiyang. Tan

address:

221 No. 179, Section 1, Datong Road, Xizhi District, New Taipei City

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File Change History

Model							
Index	Change Type	Change Type	Change Date	Description of Changes	Revision	Version	Remarks

Number:QR-NF-001

Version : A1



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Specification Sheet

Main teclmlcal specification	
Frequency Range (MHz)	5150-5850
Impedance	50
Peak Gain(dBi)	5±1
VSWR	≦2.0
Polarization	Linear, polarization
Average efficiency (%)	80%
Connector Type	IPXE 1
Physica Properties	
Cable	black
Packaging	PE bag
Storage Temp	-40℃~+70℃
Operating Temp	-10℃~+60℃



Test Equipment & Conditions

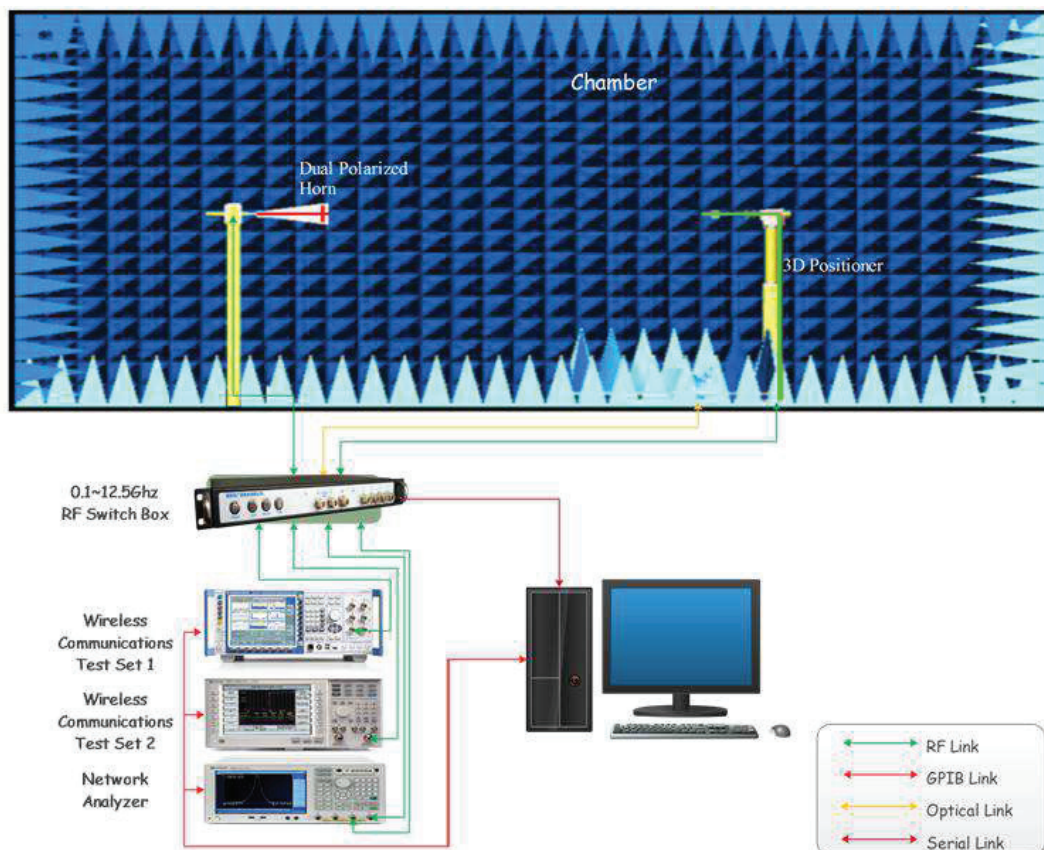
1. Network Analyzers :

Agilent 5071C

2. Communications Test Set:

Rohde & Schwarz CWM500

3. 3D Chamber Test System





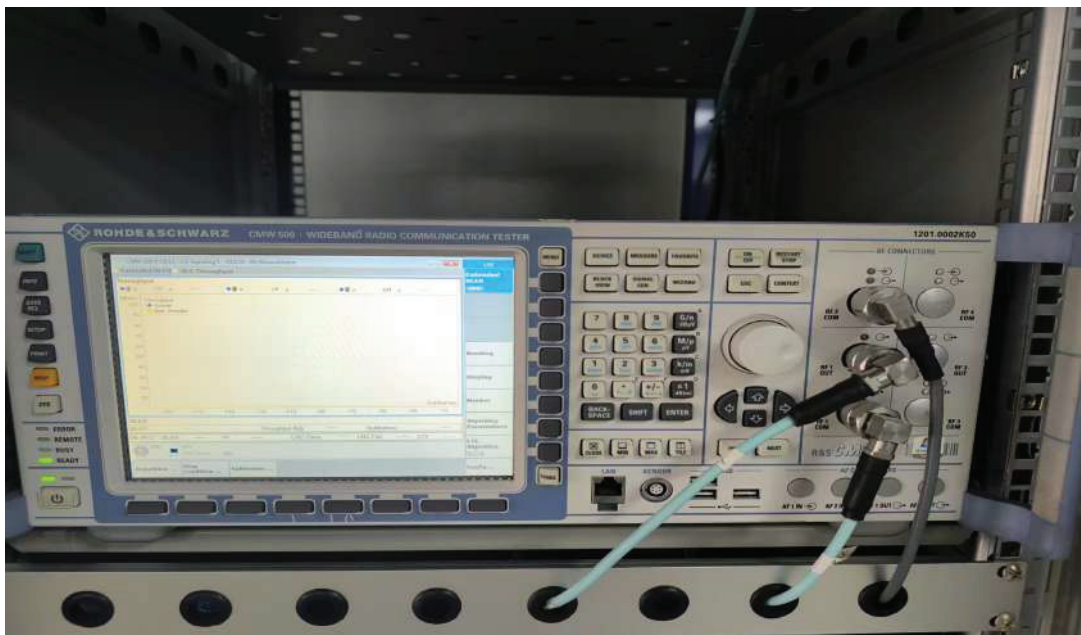
宏信科技股份有限公司
HT-TECH CORPORATION

HT-TECH CORPORATION

Laboratory

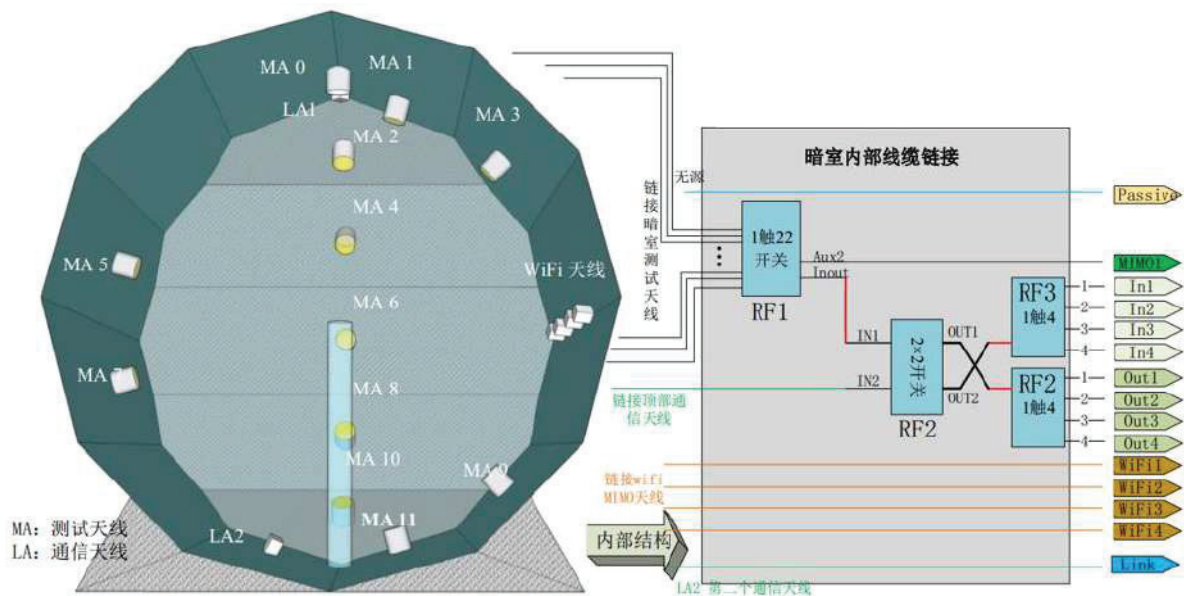
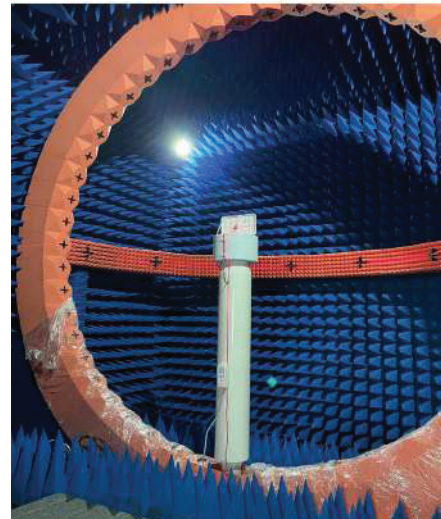


CMW500



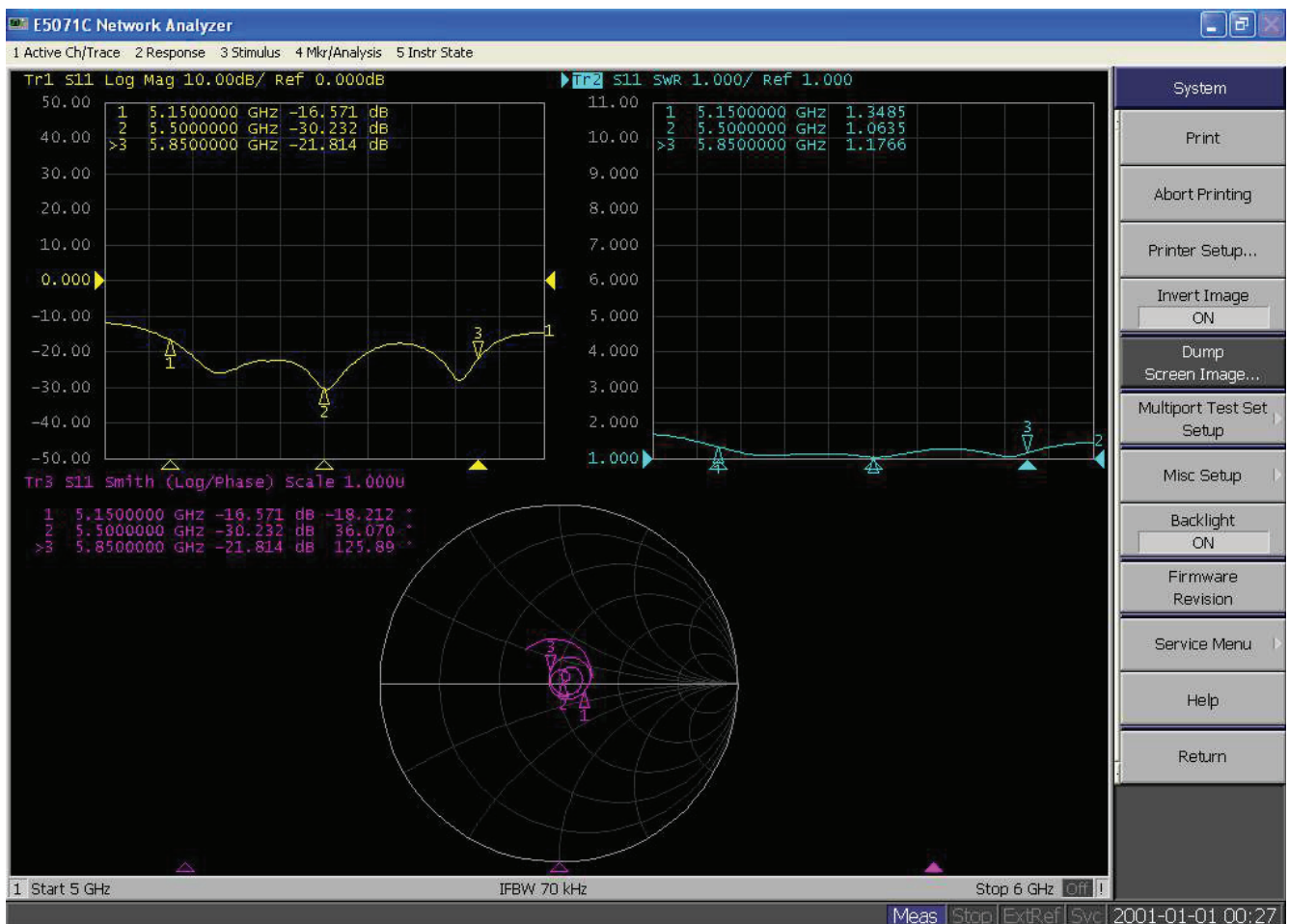


Test the darkroom





5.8G S Parameter



Test: *Bing Yang*

Review: *ZhiYung Tan*

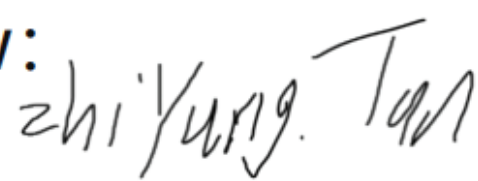
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5.8G Efficiency&Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	78.19	5.38
5200	77.75	5.44
5250	82.6	5.49
5300	81.29	5.35
5350	78.85	5.38
5400	78.95	5.27
5450	79.89	5.36
5500	80.7	5.2
5550	82.36	5.31
5600	80.53	5.38
5650	82.6	5.36
5700	81.52	5.35
5750	82.72	5.31
5800	82.24	5.36
5850	83.7	5.24

Test: 

Review: 

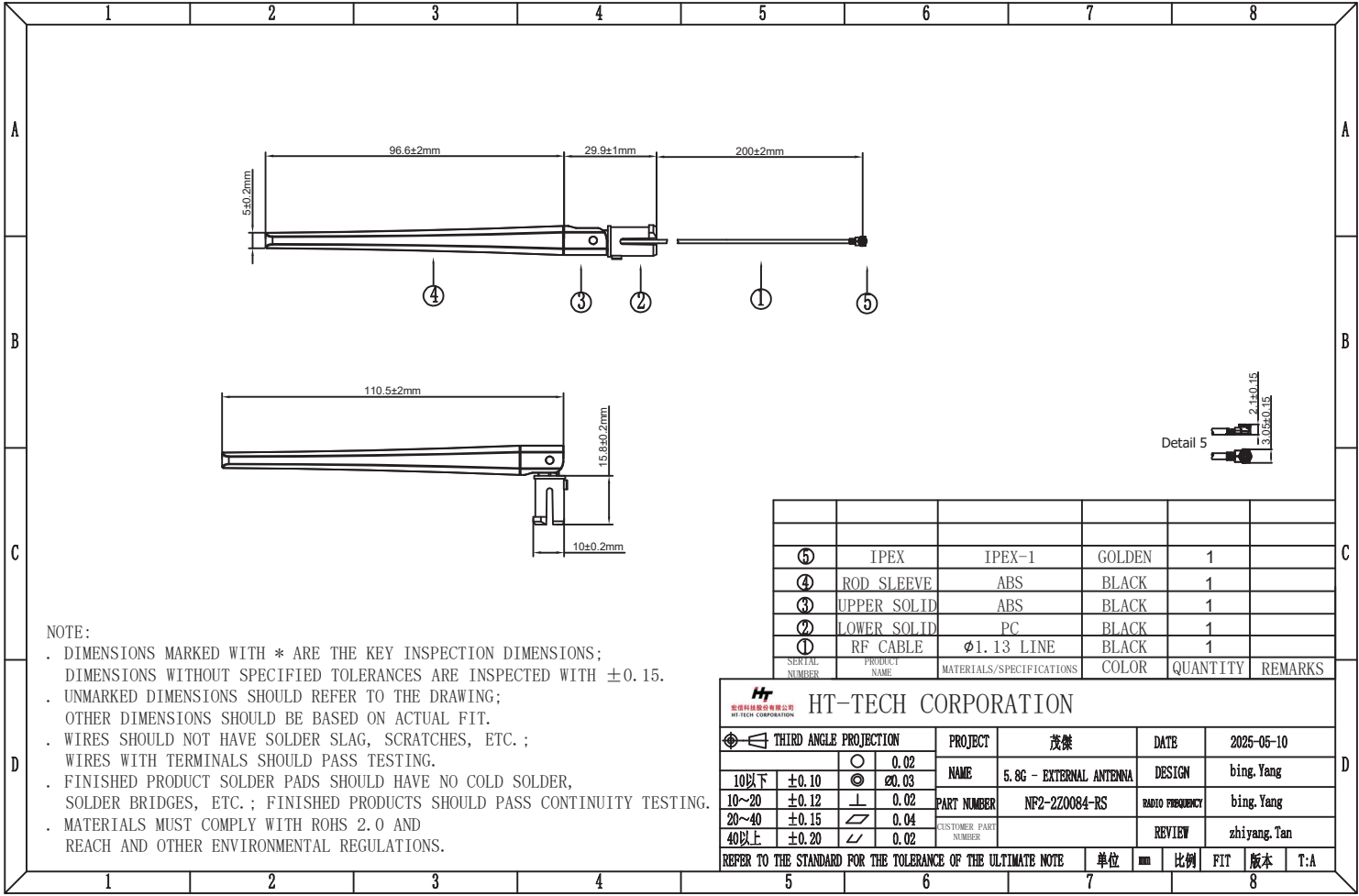


5.8G Directional map

Channel(MHz) 5 1 5 0	Channel(MHz) 5 5 0 0	Channel(MHz) 5 8 5 0
ZX-Plane Total	ZX-Plane Total	ZX-Plane Total
Phi 02D	Phi 90 2D	Theta 90 2D

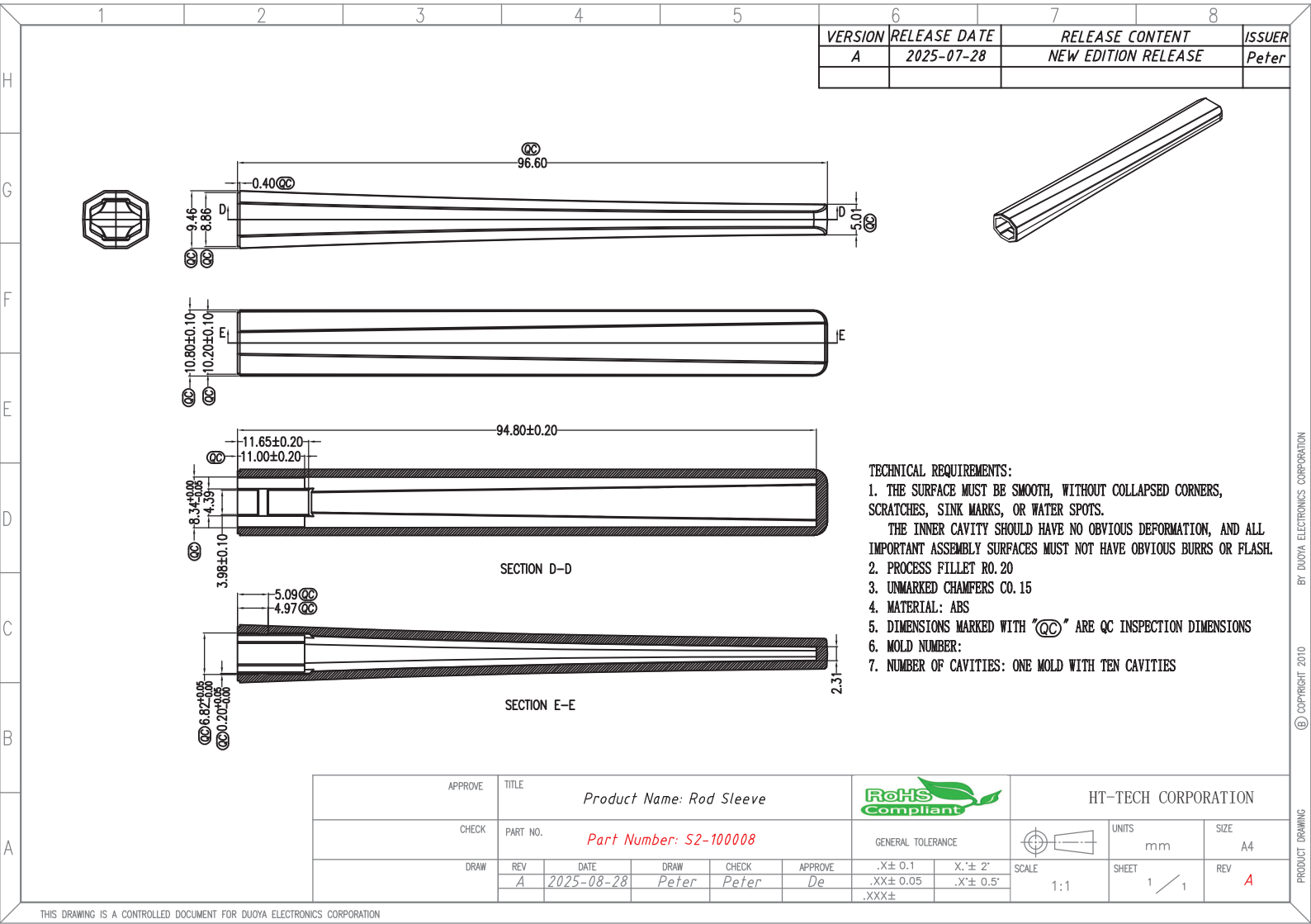
Test: *Bing Yang*

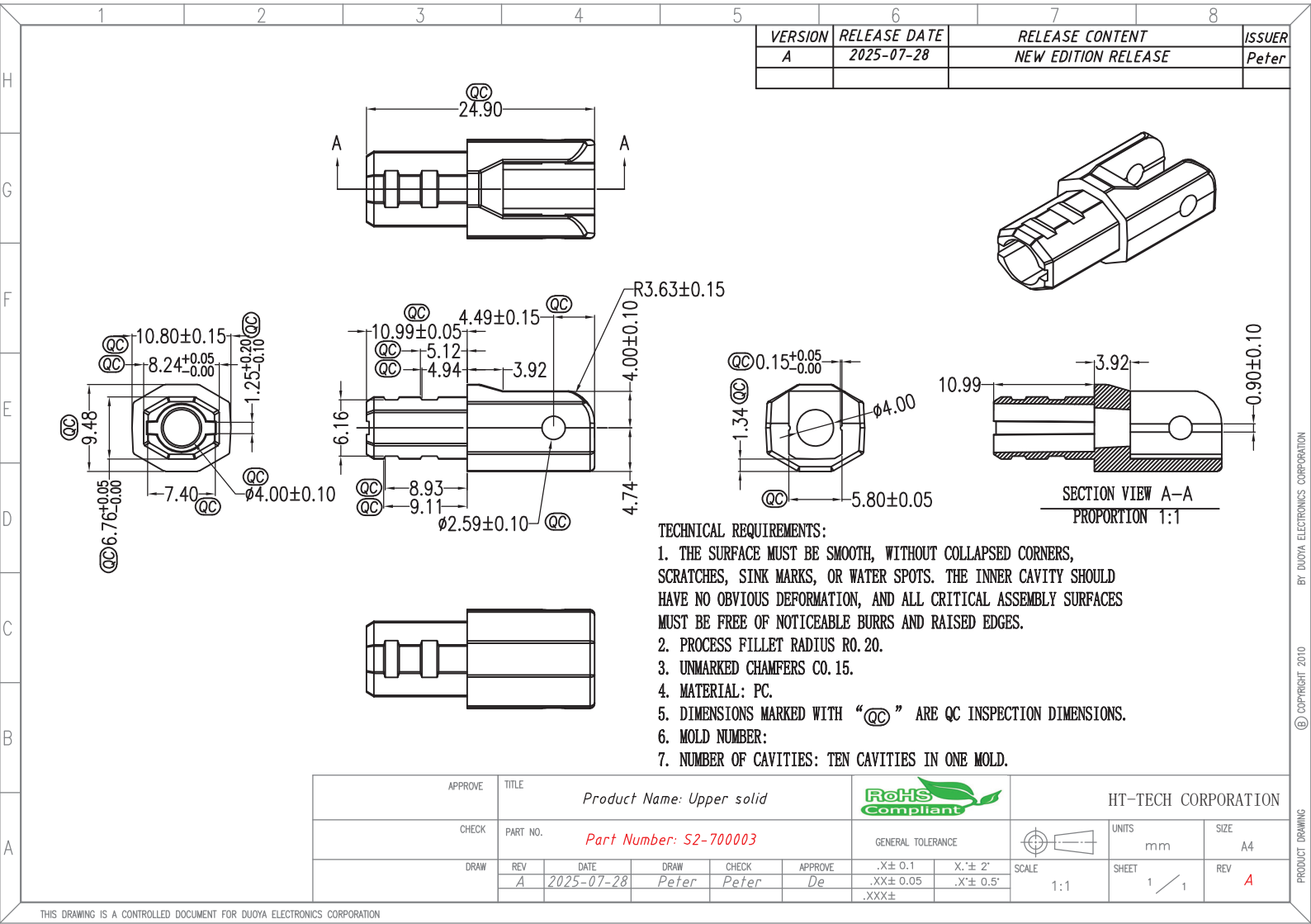
Review: *Zhiyong Tan*

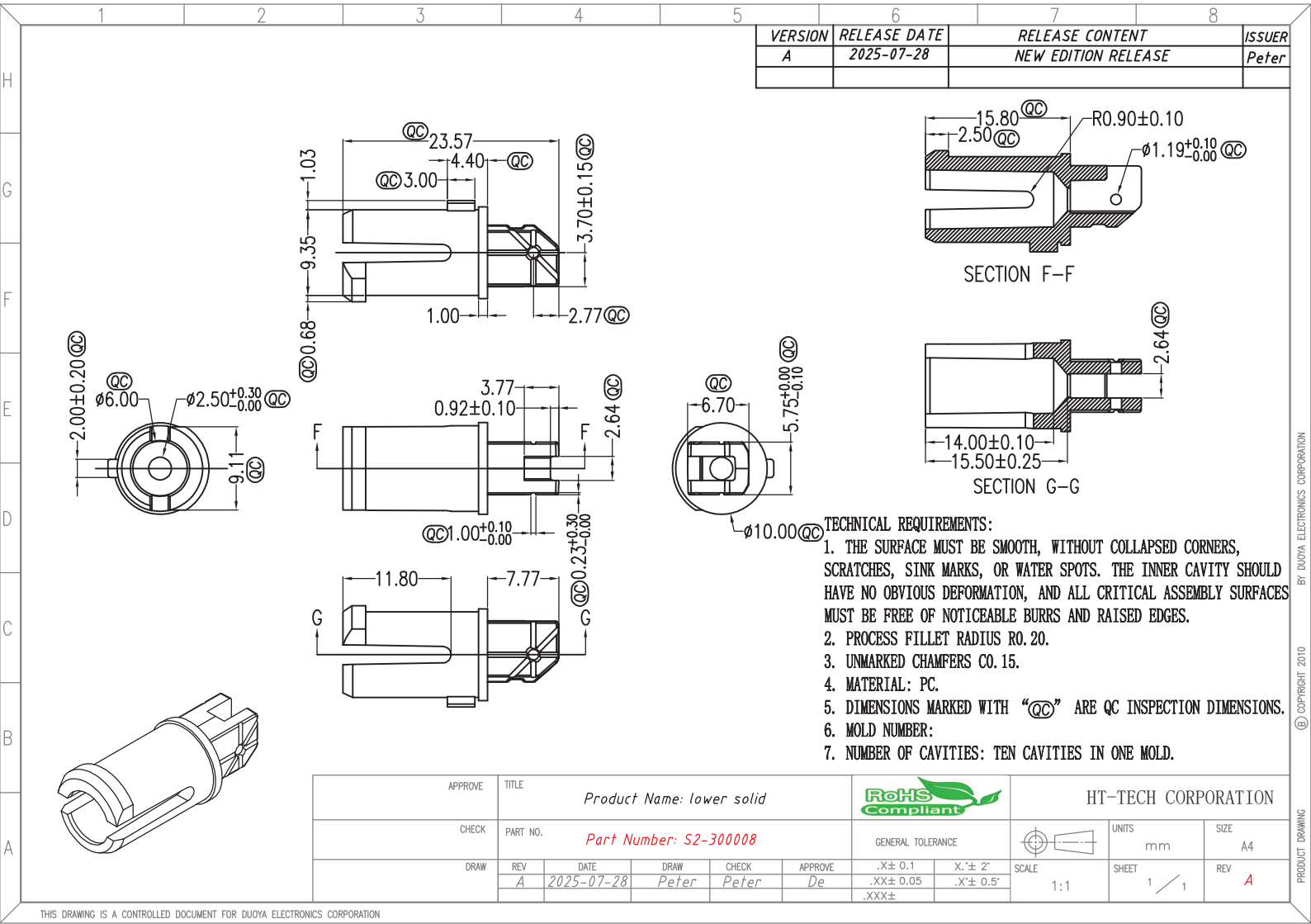


SERIAL NUMBER	PRODUCT NAME	MATERIALS/SPECIFICATIONS	COLOR	QUANTITY	REMARKS
⑤	IPEX	IPEX-1	GOLDEN	1	
④	ROD SLEEVE	ABS	BLACK	1	
③	UPPER SOLID	ABS	BLACK	1	
②	LOWER SOLID	PC	BLACK	1	
①	RF CABLE	φ1.13 LINE	BLACK	1	

 恆達科技股份有限公司 HT-TECH CORPORATION HT-TECH CORPORATION																	
 THIRD ANGLE PROJECTION			PROJECT		茂傑		DATE		2025-05-10								
10以下 ±0.10 			NAME		5.8G - EXTERNAL ANTENNA		DESIGN		bing.Yang								
10~20 ±0.12 			PART NUMBER		NF2-220084-RS		RADIO FREQUENCY		bing.Yang								
20~40 ±0.15 			CUSTOMER PART NUMBER					REVIEW		zhiyang.Tan							
40以上 ±0.20 																	
REFER TO THE STANDARD FOR THE TOLERANCE OF THE ULTIMATE NOTE						單位				比例		FIT		版本		T:A	







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