



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

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 technical 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

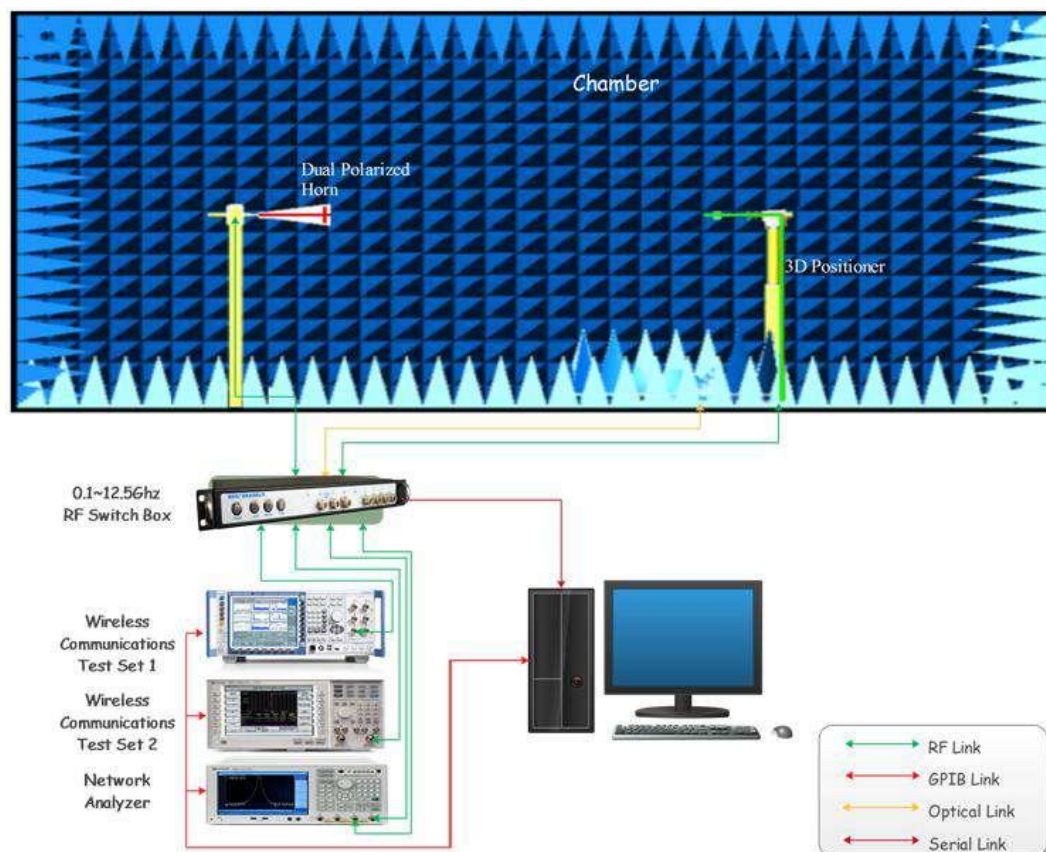
1. Network Analyzers :

Agilent 5071C

2. Communications Test Set:

Rohde & Schwarz CWM500

3. 3D Chamber Test System

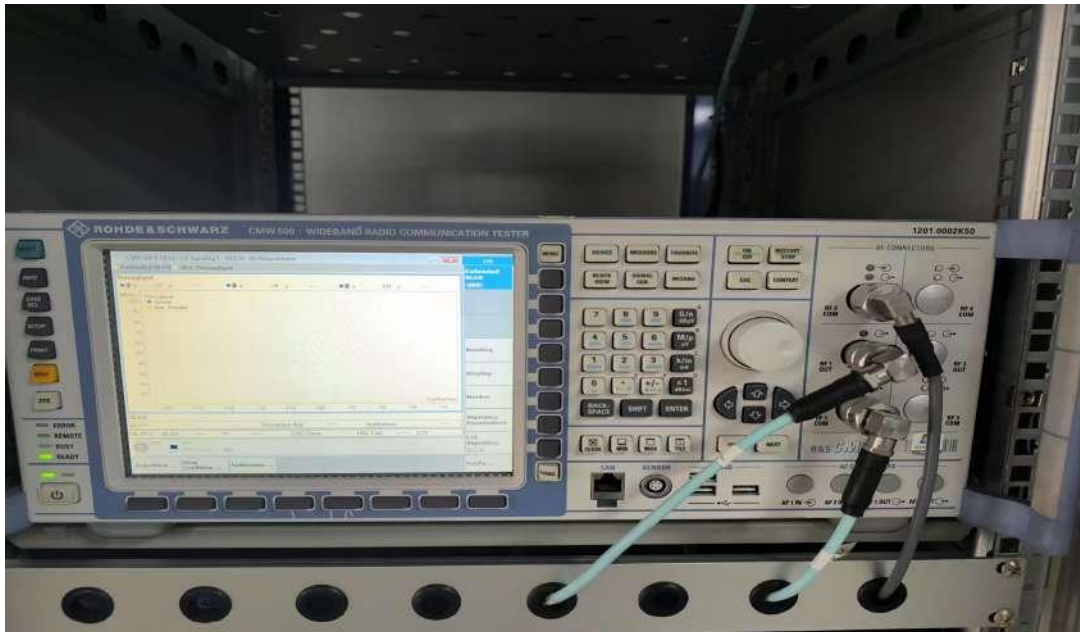




Laboratory

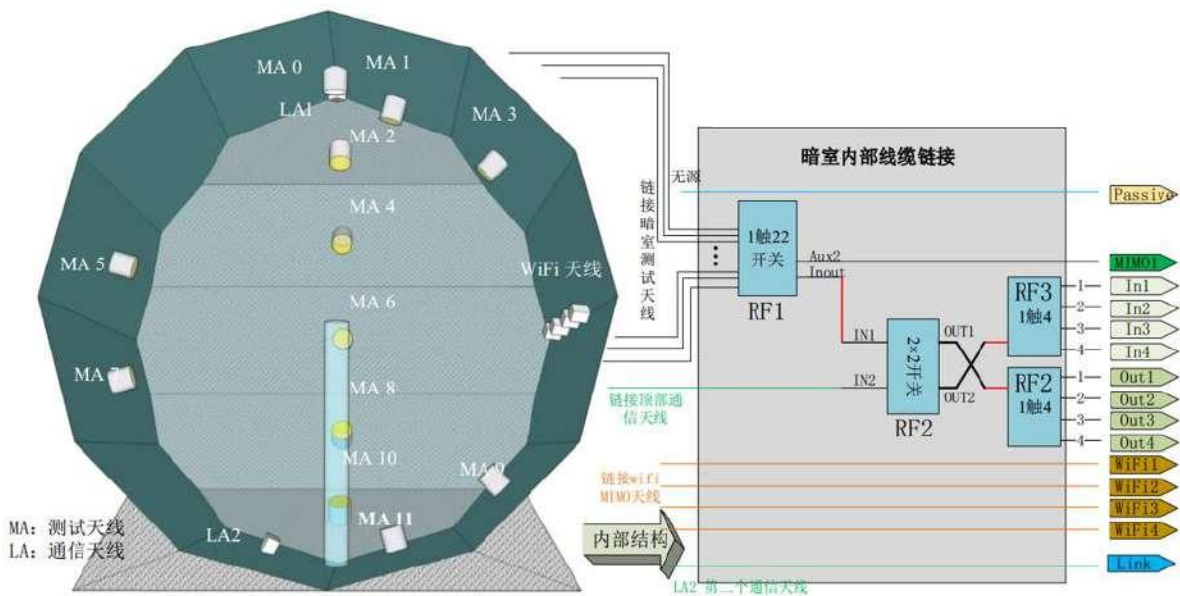
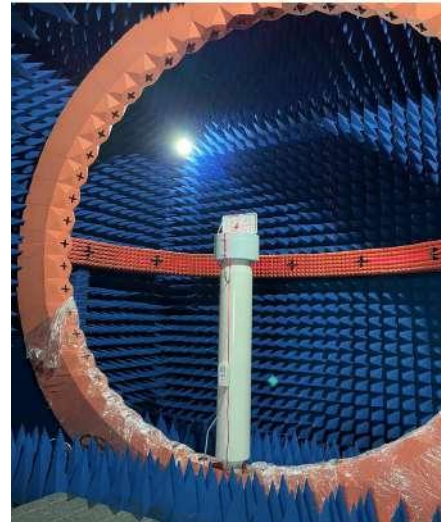


CMW500



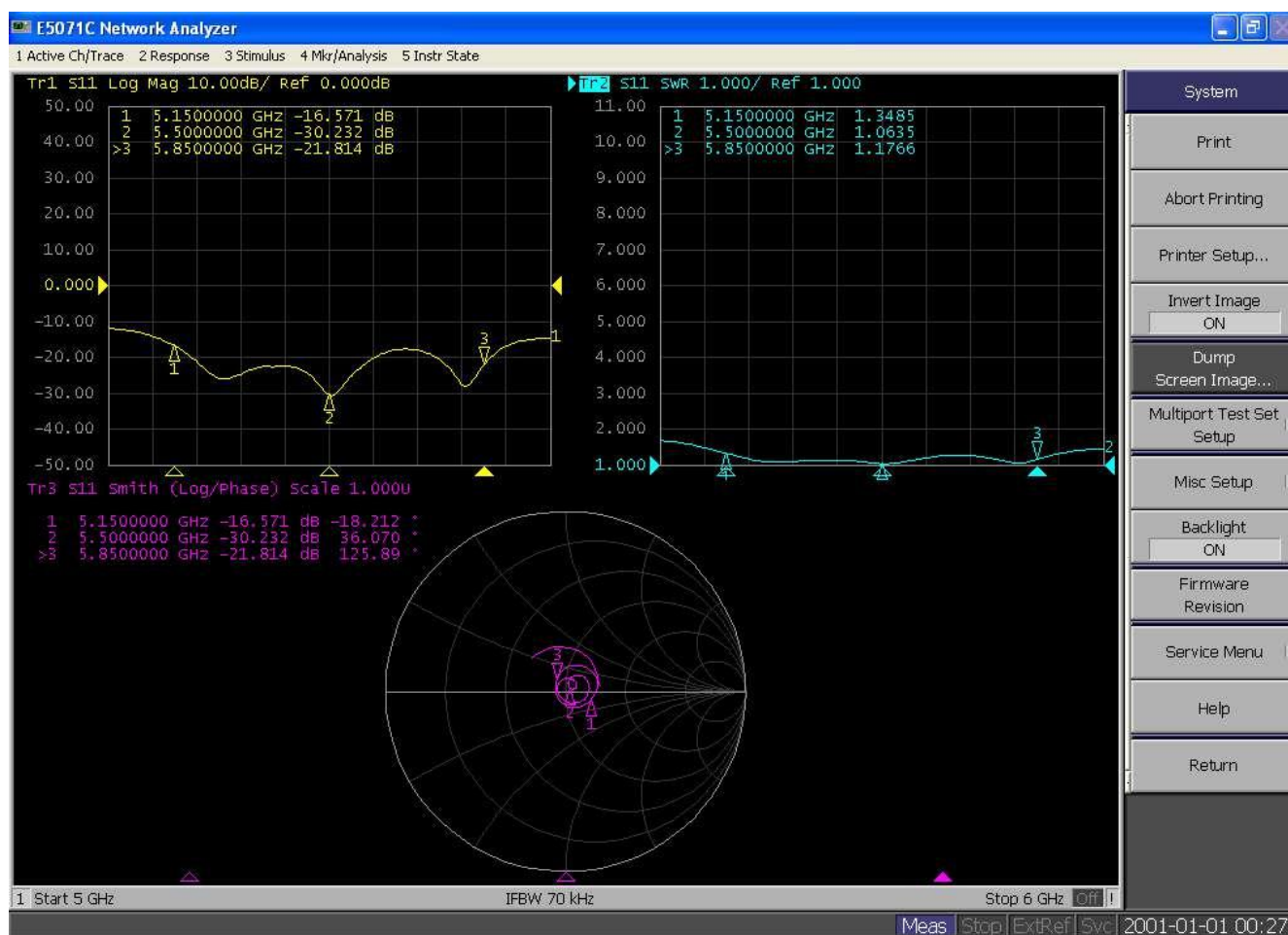


Test the darkroom





5.8G S Parameter



Test: *peng Yang*

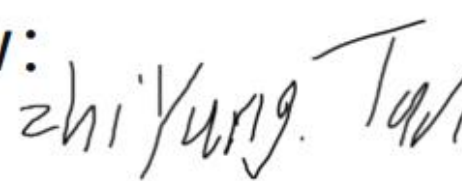
Review: *zhi'Yung. Tan*



5.8G Efficiency&Gain

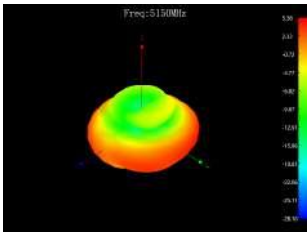
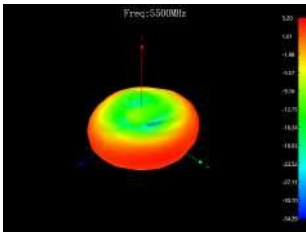
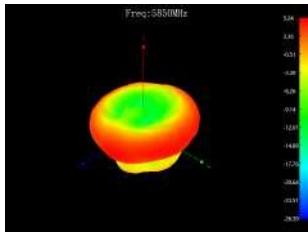
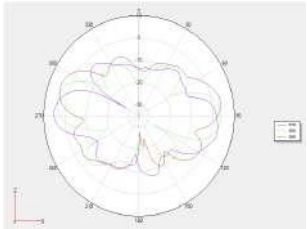
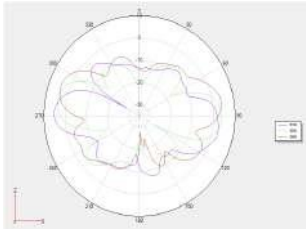
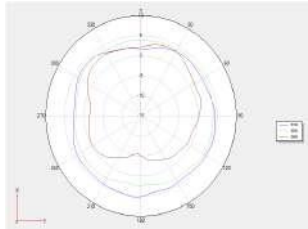
Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	78.19	5.38
5200	77.75	5.44
5250	82.6	5.49
5300	81.29	5.35
5350	78.85	5.38
5400	78.95	5.27
5450	79.89	5.36
5500	80.7	5.2
5550	82.36	5.31
5600	80.53	5.38
5650	82.6	5.36
5700	81.52	5.35
5750	82.72	5.31
5800	82.24	5.36
5850	83.7	5.24

Test: 

Review: 

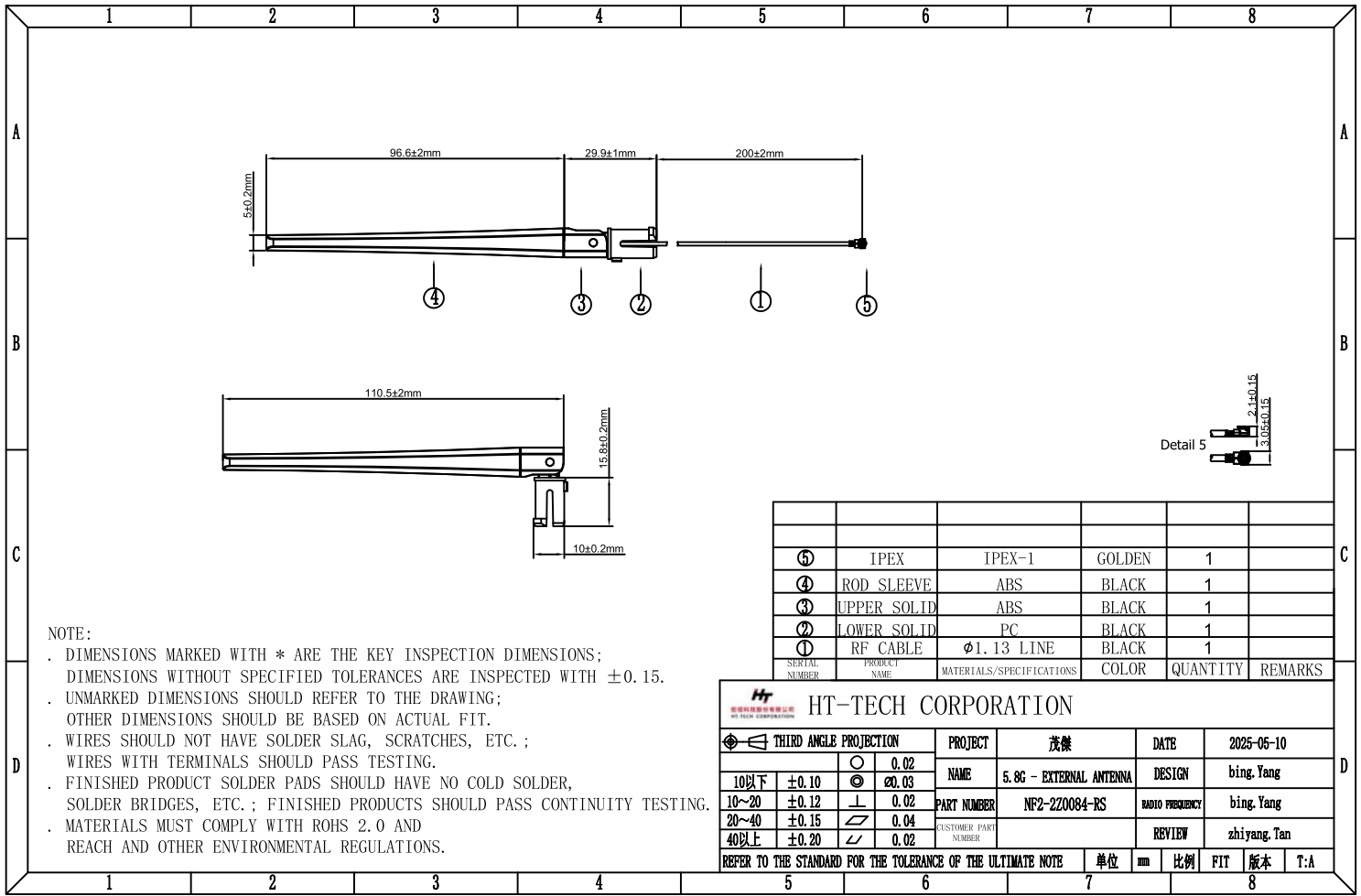


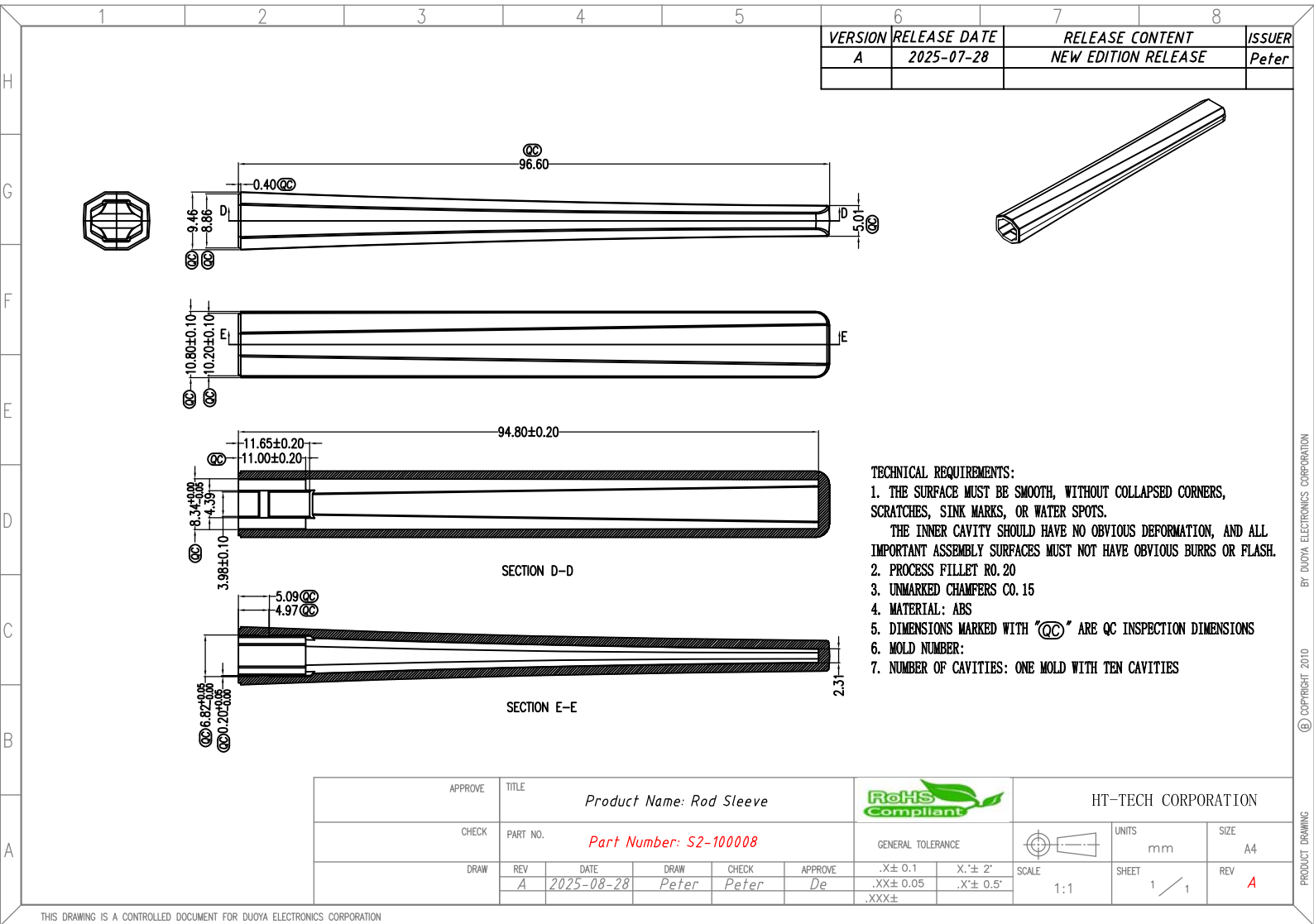
5.8G Directional map

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
		

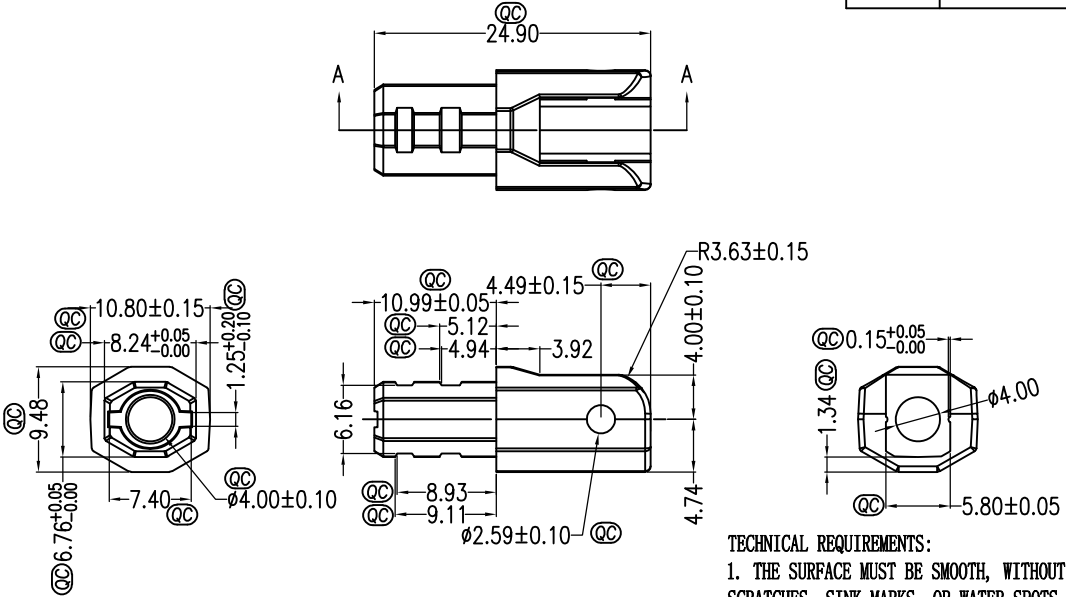
Test: *peng Yang*

Review: *zhiyung. Tan*





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VERSION	A	RELEASE DATE 2025-07-28		RELEASE CONTENT NEW EDITION RELEASE			ISSUER <i>Peter</i>	



SECTION VIEW A-A
PROPORTION 1:1

TECHNICAL REQUIREMENTS:

- THE SURFACE MUST BE SMOOTH, WITHOUT COLLAPSED CORNERS, SCRATCHES, SINK MARKS, OR WATER SPOTS. THE INNER CAVITY SHOULD HAVE NO OBVIOUS DEFORMATION, AND ALL CRITICAL ASSEMBLY SURFACES MUST BE FREE OF NOTICEABLE BURRS AND RAISED EDGES.
- PROCESS FILLET RADIUS RO.20.
- UNMARKED CHAMFERS CO.15.
- MATERIAL: PC.
- DIMENSIONS MARKED WITH “QC” ARE QC INSPECTION DIMENSIONS.
- MOLD NUMBER:
- NUMBER OF CAVITIES: TEN CAVITIES IN ONE MOLD.

		Product Name: Upper solid				HT-TECH CORPORATION	
CHECK	PART NO.	Part Number: S2-700003		GENERAL TOLERANCE			SHEET 1 / 1
DRAW	REV	DATE	DRAW	CHECK	APPROVE	SCALE	SIZE
	A	2025-07-28	Peter	Peter	De	1:1	A4
						.X± 0.1	REV A
						.XX± 0.05	
						.XXX±	

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