



Hubble Part No.	3.6.04.0212
Product Name	HSD240918 FPC Antenna WIFI Antenna 2.4G&2.5G Consumer-grade Hubble
Feature	monopole Frequency Range: 2400 MHz ~2500MHz, ROHS Compliant
Antenna manufacturer address	A: No.100 Binjiang North Road, Zhangpu Town, Kunshan, Jiangsu, P.R.C

Edition	Content	Date
V0	First Release	2026.4.15

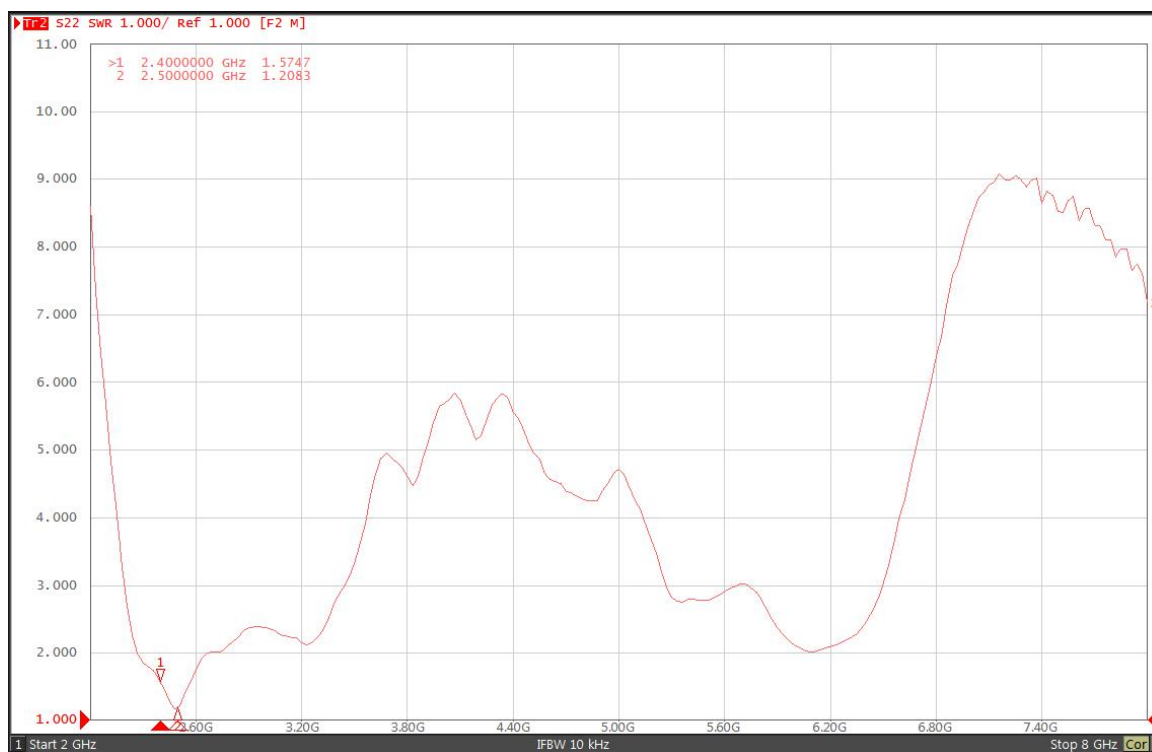
1. Electrical Specification

1.1 Passive Efficiency

Frequency (MHz)	Efficiency. db (db)	Efficiency (%)	Gain (dBi)
2400MHz	-2. 51	56%	3. 95
2420MHz	-2. 52	56%	3. 67
2440MHz	-2. 61	55%	3. 57
2460MHz	-2. 74	53%	3. 33
2480MHz	-2. 77	53%	3. 19
2500MHz	-2. 8	52%	2. 74

1.2 S parameter

VSWR S11



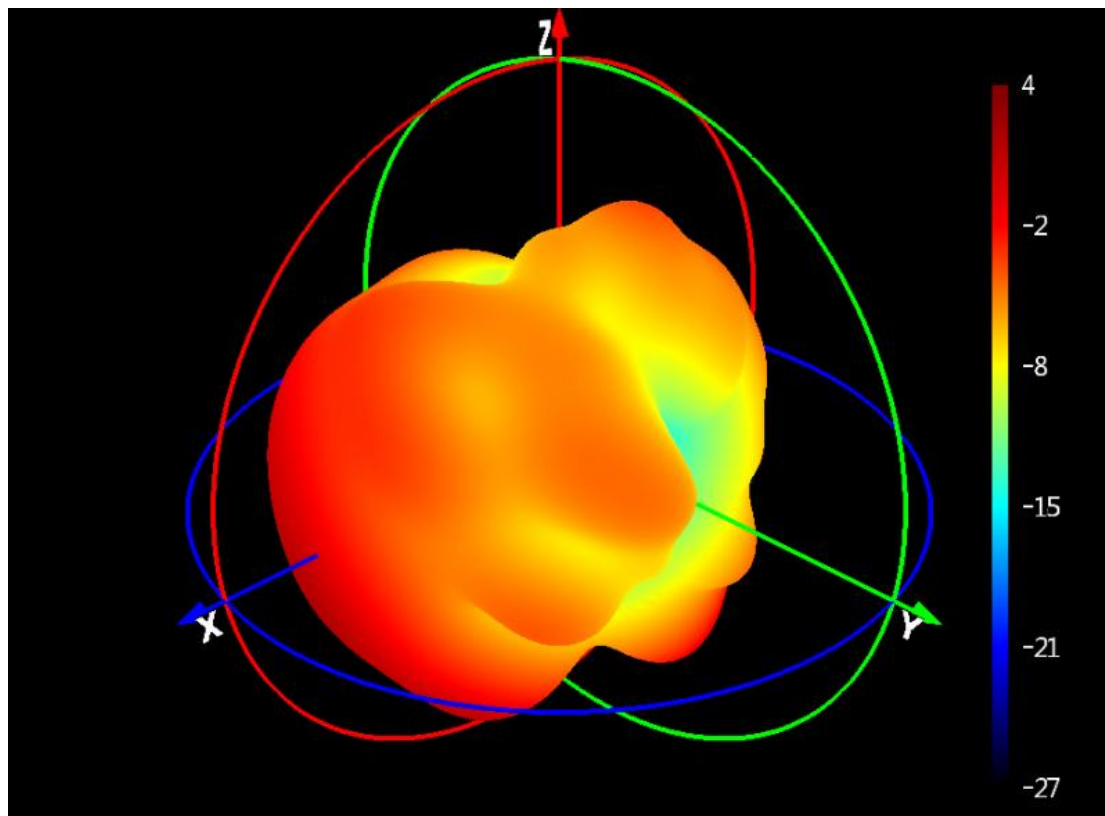
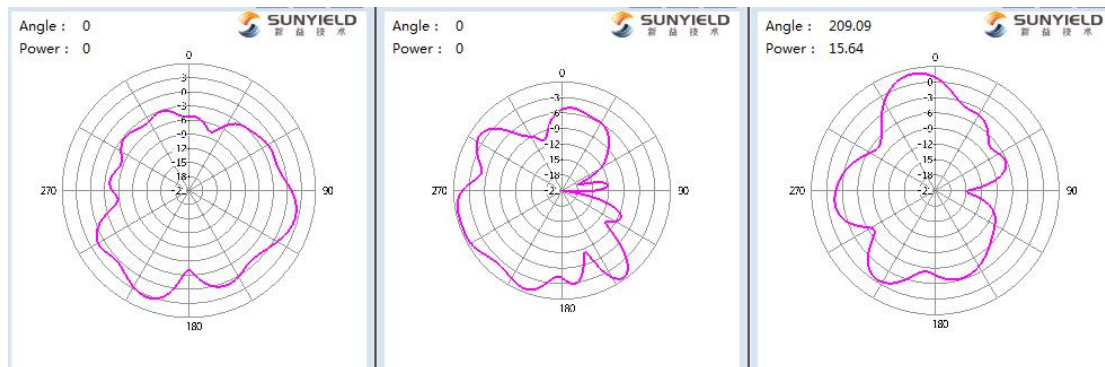


2. Mechanical Specifications

Dimension(mm)	39.44*9.66
Cable type	0.81
cable color & length(mm)	Black/80

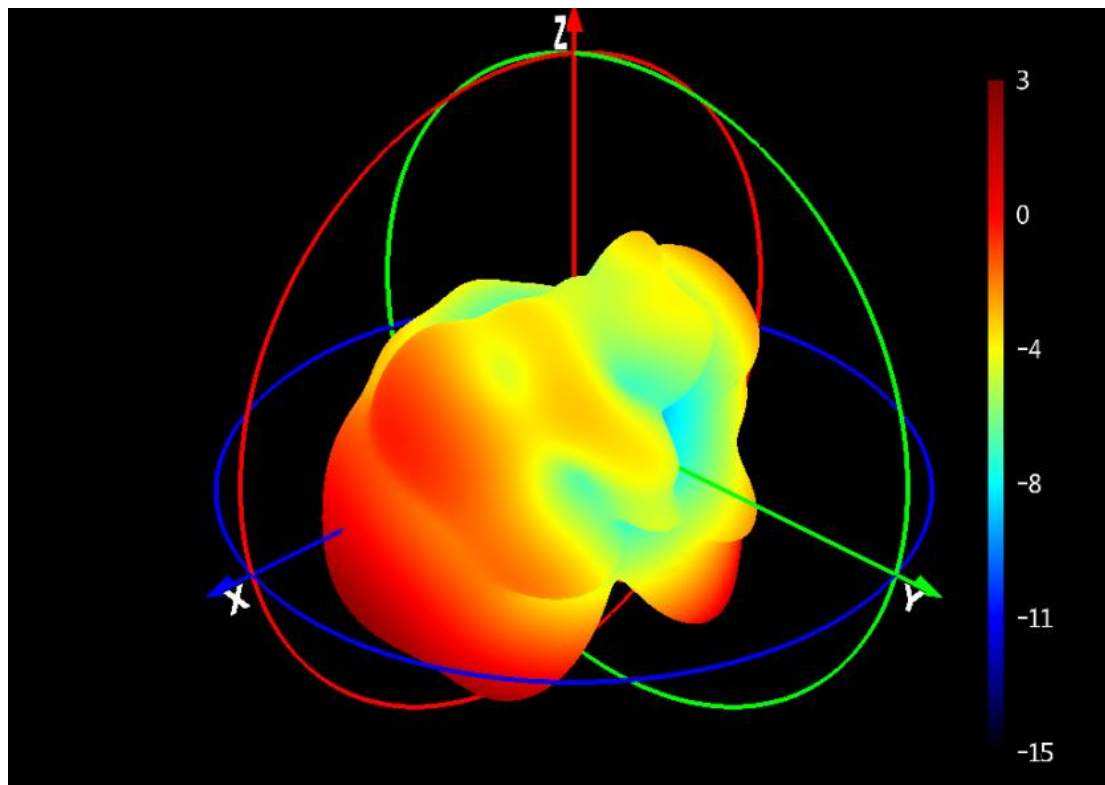
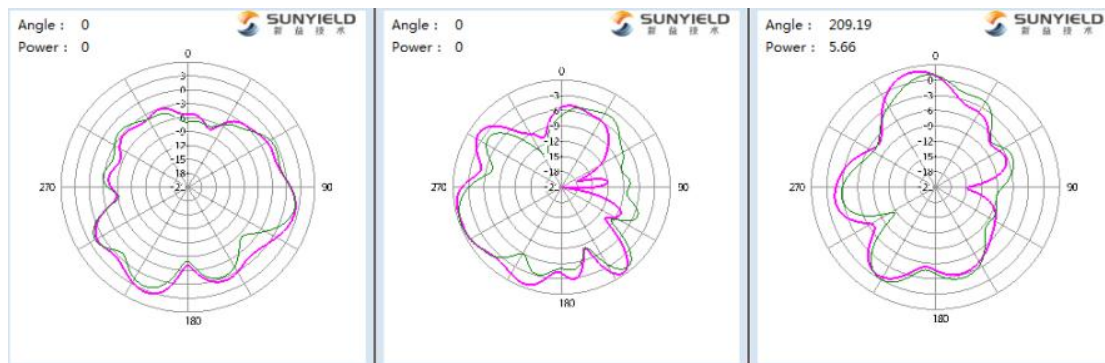
2.4G~2.5G

2.4G

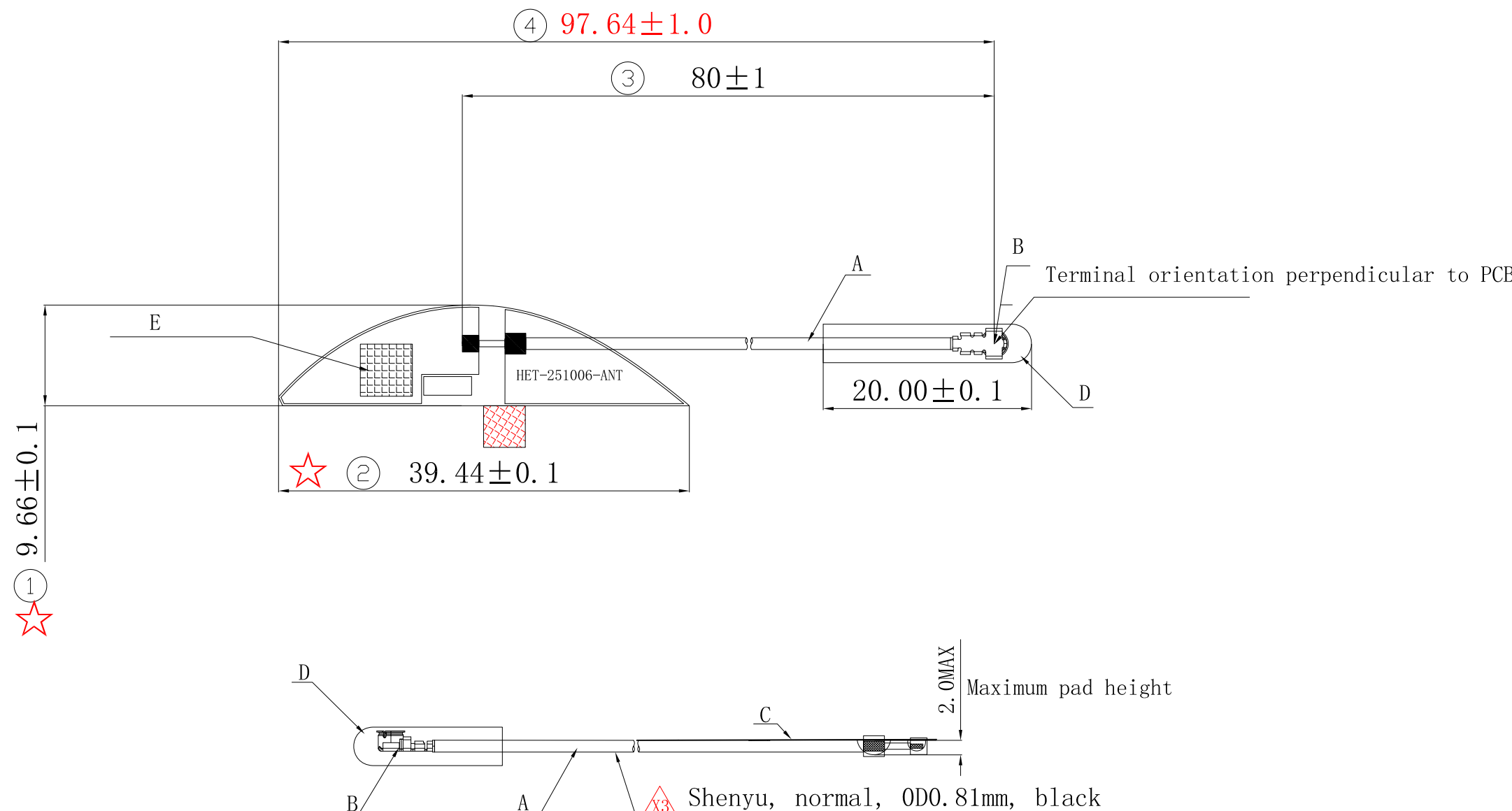
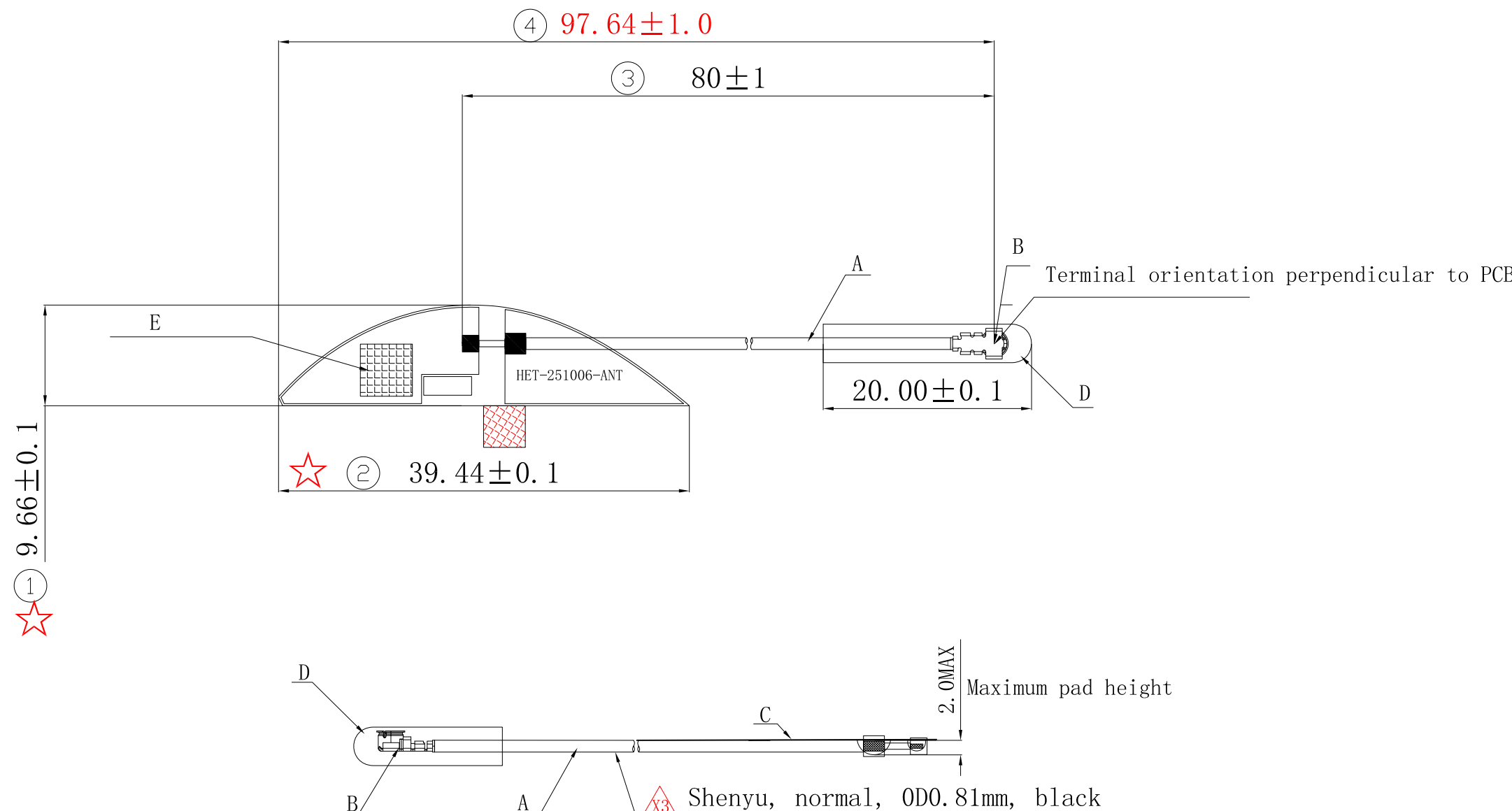
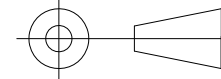
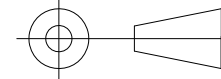
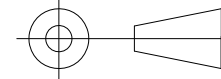




2.5G



4.Drawing

A	1	2	3			4																																																		
	All materials shall comply with RoHS 2.0+HF+Reach standards		REV	ECN NO.	DESCRIPTION	DATE	DESIGN	APPROVE																																																
			X1		Initial Issue	20240921	John Liu	Devon Li																																																
			X2		Cable length dimension updated	202401018	John Liu	Devon Li																																																
			X3		Cable diameter changed from 1.13 to 0.81	20260108	Bunny Lu	Water Yang																																																
B			Silk-screen Instruction: Character height 1.0, font Arial, white; <u>HET-251006-ANT</u> Product Antenna Name Production Date(YYMMDD), e.g. 251006: "25"=Year 2025, "10"=10th month, "06"=6th day Hubble Abbreviation 5 5 Clearance area ≥ 0.5mm to avoid misalignment & unrecognizable Scale 2:1																																																					
C			Coding Rule (26 digits, HQ260060005Y046100100001): H260060005Y0: 13 digits, Customer P/N, fixed Year: 1 digit; 4=2024, 5=2025, etc. Month: 1 digit; 1~9=Jan-Sep, A/C/D=Oct/Nov/Dec Day: 2 digits, 01~31 Shift: 1 digit; D=Day shift, N=Night shift Mold: 1 digit; 1=1st mold, 0=no mold Version No.: 2 digits; X1=01, X2=02, etc. XXXXX: 5 digits, serial code 00000~FFFFF (Hex)																																																					
D	技术要求 1.Dimensions marked “○” = FAI; “()” = Reference 2.Dimensions marked “☆” = Key dimensions 3.Dimensions marked “⊙” = CPK control; Consumer CPK≥1.33, Automotive CPK≥1.67 4.Dimensions marked “⌀” = SPC dimensions 5.Dimensions marked “△” = Revision change dimensions 6.Unmarked dimensions refer to 2D&3D; unmarked tolerances per tolerance table 7.Appearance per Hubble inspection spec & limit samples 8.Raw material & process comply with Hubble (2-PZ-003) environmental spec 9.Reliability test complies with Hubble quality test standards 10.Environment: RoHS 2.0 + Halogen-free + Reach + EU Level I 11.Materials refer to material specification sheet		<table><tr><td>E</td><td>Label</td><td>PET,White background with black dots,5*5mm</td><td>1</td></tr><tr><td>D</td><td>Terminal Protective Sleeve</td><td>Transparent PE L=20MM</td><td>1</td></tr><tr><td>C</td><td>FPC</td><td>Single-sided board,Cu18μm, adhesive HGT-10P</td><td>1</td></tr><tr><td>B</td><td>Terminal</td><td>Kangshuo Generation 1 Terminal</td><td>1</td></tr><tr><td>A</td><td>Coaxial cable △3</td><td>Shenyu, normal, OD0.81mm, black</td><td>1</td></tr></table>		E	Label	PET,White background with black dots,5*5mm	1	D	Terminal Protective Sleeve	Transparent PE L=20MM	1	C	FPC	Single-sided board,Cu18μm, adhesive HGT-10P	1	B	Terminal	Kangshuo Generation 1 Terminal	1	A	Coaxial cable △3	Shenyu, normal, OD0.81mm, black	1	<table><tr><td>Serial No.</td><td>Product Name</td><td>Description</td><td>Quantity</td></tr><tr><td colspan="2">Angles: +/-0.5°</td><td rowspan="2">Customer P/N: /</td><td rowspan="2"> KUNSHAN HUBBLE ELECTRONICS TECHNOLOGY CO., LTD</td></tr><tr><td>50<L<=100</td><td>±0.12</td></tr><tr><td>10<L<=50</td><td>±0.10</td><td rowspan="2">Customer REV.: /</td><td rowspan="2">Project Name HSD240918_SHQS_VR Controller Antenna_TOP_COVER_RIGHT_Assembly</td></tr><tr><td>2<L<=10</td><td>±0.08</td></tr><tr><td>0<L<=2</td><td>±0.05</td><td rowspan="2">Drawing No. /</td><td rowspan="2">Part No. 3.6.04.0212</td></tr><tr><td>UNITS: MM</td><td>MM</td></tr><tr><td rowspan="3">Dimension (mm) Tolerance</td><td rowspan="3">THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HUBBLE AND SHALL NOT BE REPRODUCED, COPIED OR CUED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF HUBBLE</td><td>DRAW John Liu 20241018</td><td rowspan="3"> SCALE SIZE SHEET REV 1:1 A4 1/1 X3</td></tr><tr><td>CHKD John Liu 20241018</td></tr><tr><td>APPD Devon Li 20241018</td></tr></table>				Serial No.	Product Name	Description	Quantity	Angles: +/-0.5°		Customer P/N: /	 KUNSHAN HUBBLE ELECTRONICS TECHNOLOGY CO., LTD	50<L<=100	±0.12	10<L<=50	±0.10	Customer REV.: /	Project Name HSD240918_SHQS_VR Controller Antenna_TOP_COVER_RIGHT_Assembly	2<L<=10	±0.08	0<L<=2	±0.05	Drawing No. /	Part No. 3.6.04.0212	UNITS: MM	MM	Dimension (mm) Tolerance	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HUBBLE AND SHALL NOT BE REPRODUCED, COPIED OR CUED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF HUBBLE	DRAW John Liu 20241018	 SCALE SIZE SHEET REV 1:1 A4 1/1 X3	CHKD John Liu 20241018	APPD Devon Li 20241018
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