

APPROVAL SHEET

CUSTOMER NAME:	
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PARTNO:

NAME: **TYPE** Antenna

CUSTOM P/N:

RP-SMA Gold 5L Antenna with Copper

SPECIFICATON: Element

- 1. Newly Approved ☒
- 2. Material Approved ☐
- 3. SPEC Approved ☐

Manufacturer/Supplier (Approval by):			Customer (Approval by):		
ShenZhen Restart Teechnology Co.,Ltd					
APPROVAL BY:			APPROVAL BY:		
APPROVAL DATE: 2025/ /			APPROVAL DATE: 2025/ /		
SUPPLIER			CUSTOMER		
Q. Dept	E. Dept	S. Dept	TESTED	CHECKED	APPROVED
ShiJuan Wu	ShiHai Wang	RongMao Chen			
DATE: 2025/ /			DATE: 2025/ /		

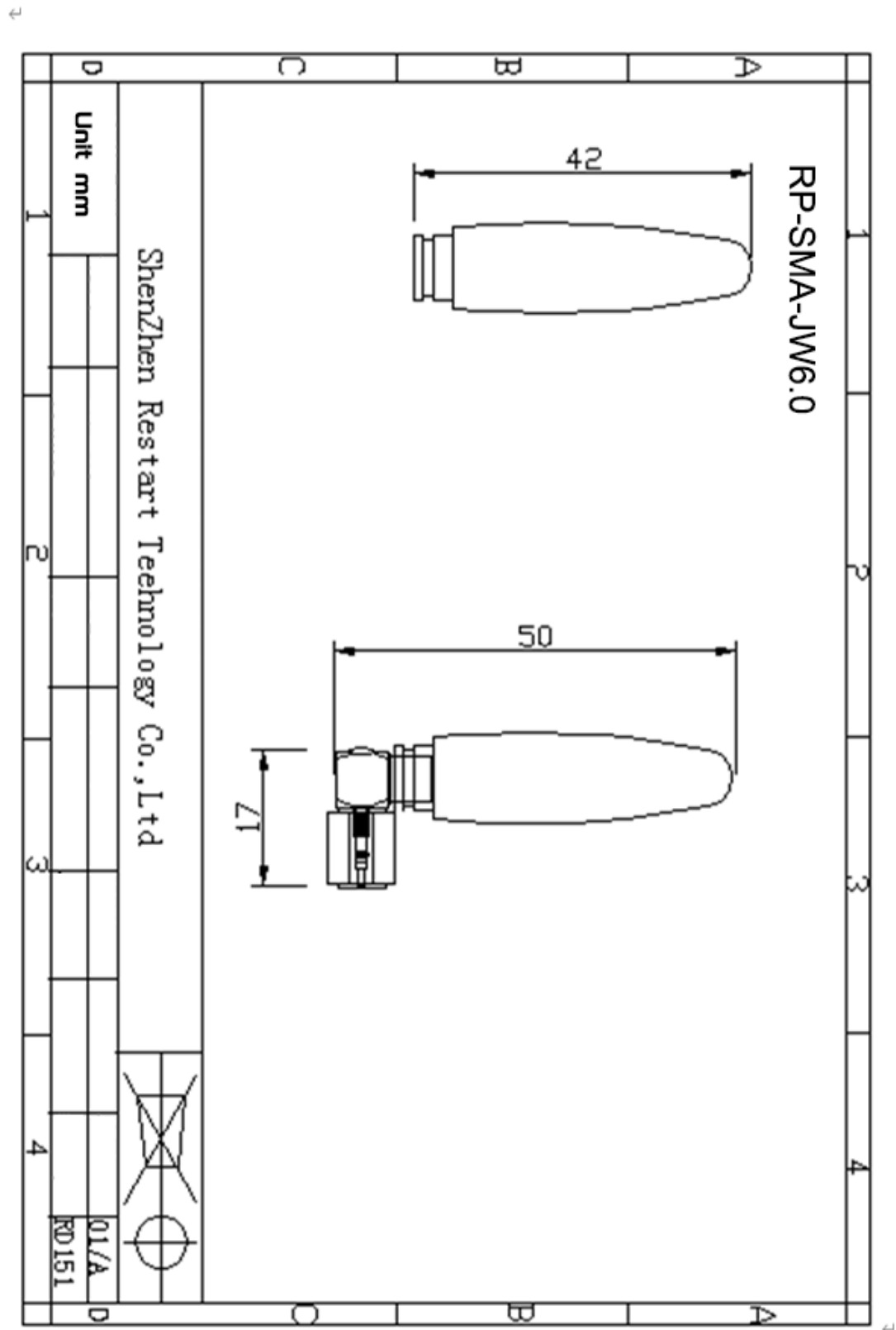
Production Parameter

Product Model 2.4G/5.8G Antenna	
WIFI Antenna	
Application Frequency Range: WIFI WLAN	
Coverage Frequency Range: 2400-2500MHZ/5150-5850MHz	
Gain Coverage: With test data parameters	
Polarization	Linear Polarization
V.S.W.R:	2.0:1
Impedance:	50 ohm
Connector	RP-SMA-JW6.0
Weight	10gram
Size	50*17mm
Housing	Black
Environmental	
1. Working Temp	-40℃~+85℃
2. Vibration	Sine sweep 1g(0-p)10~50~10Hz each axis
3. Humidity	Humidity 95%~100%R
Application Range:	
Vehicle electronics	
communication equipment	
smart communication devices	
industrial routers, etc.	

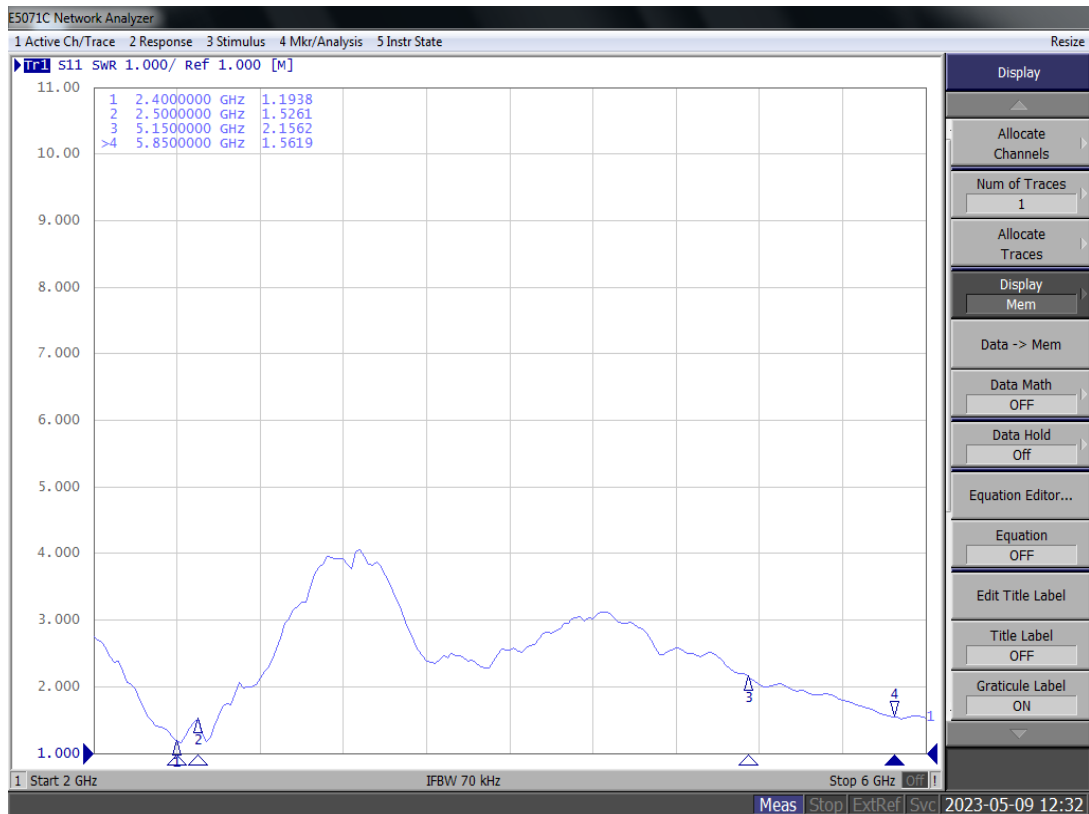
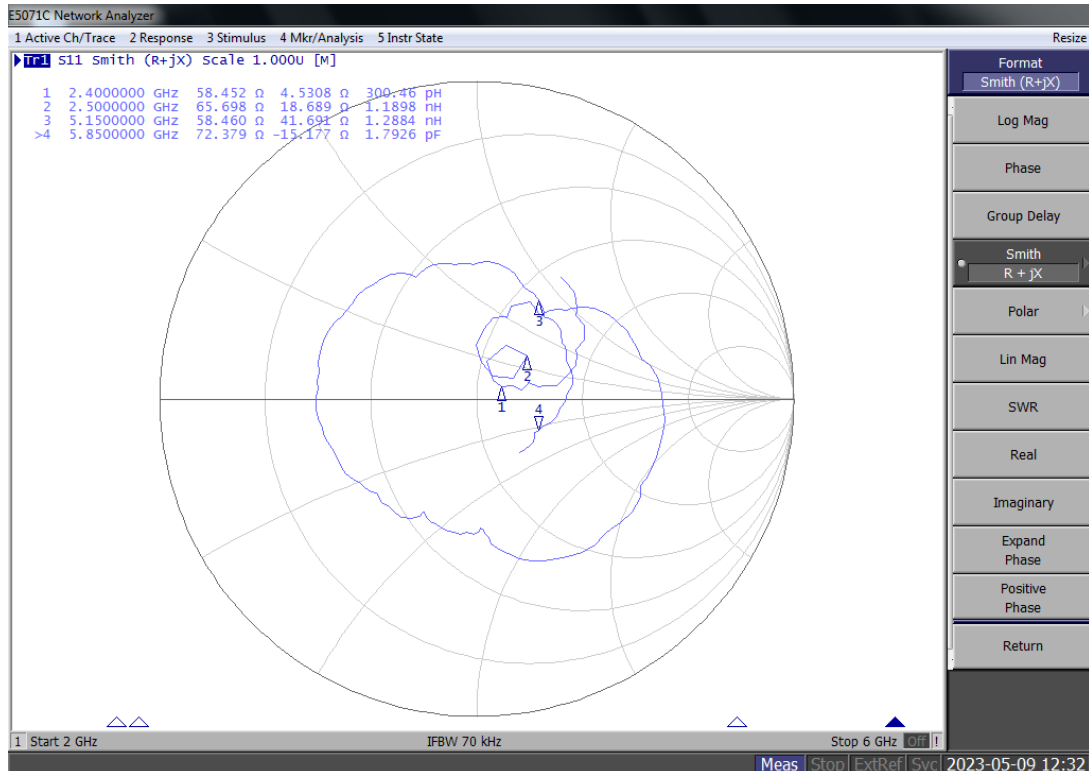
Product physical picture



Structural dimension drawing



Test pattern



Test Data Parameters

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.72	-2.87	-3.00	-3.03	-2.93	-2.72	-2.55	-2.48	-2.37	-2.43	-2.53
Gain (dBi)	2.02	1.92	1.82	1.60	1.66	1.91	2.24	2.22	2.31	2.35	2.03
Efficiency (%)	53.45	51.63	50.18	49.81	50.95	53.43	55.61	56.52	57.93	57.18	55.88
Directivity (dB)	4.74	4.79	4.81	4.62	4.59	4.63	4.79	4.70	4.68	4.78	4.56
Peak Gain Position (Theta)	141.00	140.00	139.00	83.00	83.00	84.00	136.00	136.00	136.00	136.00	90.00
Peak Gain Position (Phi)	113.00	113.00	113.00	49.00	49.00	49.00	114.00	114.00	113.00	113.00	49.00
Efficiency ThetaPol (%)	36.55	34.75	33.52	33.60	34.60	36.63	38.15	38.73	39.34	38.19	36.81
Efficiency PhiPol (%)	16.90	16.88	16.66	16.21	16.35	16.80	17.46	17.79	18.59	18.99	19.07
Upper Hem. Efficiency (%)	25.17	24.40	23.84	23.78	24.31	25.23	25.97	26.17	26.78	26.29	25.52
Lower Hem. Efficiency (%)	28.28	27.22	26.34	26.03	26.64	28.20	29.64	30.36	31.15	30.88	30.36

Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-2.85	-2.64	-1.92	-1.90	-2.48	-2.18	-1.99	-2.09	-1.59	-1.89	-2.46	-1.74	-1.28	-1.67	-2.08
Gain (dBi)	0.56	1.06	1.97	1.67	1.26	1.54	2.48	1.68	2.57	2.78	1.71	2.19	3.36	2.44	1.36
Efficiency (%)	51.83	54.41	64.31	64.59	56.44	60.54	63.17	61.87	69.39	64.64	56.72	67.05	74.54	68.05	61.93
Directivity (dB)	3.41	3.70	3.89	3.57	3.75	3.71	4.48	3.76	4.16	4.67	4.18	3.92	4.64	4.12	3.44
Peak Gain Position (Theta)	89.00	93.00	98.00	96.00	90.00	93.00	102.00	78.00	88.00	85.00	103.00	78.00	85.00	87.00	64.00
Peak Gain Position (Phi)	34.00	127.00	126.00	128.00	129.00	129.00	128.00	246.00	132.00	8.00	129.00	233.00	51.00	8.00	266.00
Efficiency ThetaPol (%)	44.71	46.99	57.24	58.00	49.76	53.40	56.34	55.36	62.73	57.65	50.39	60.52	67.70	61.90	56.06
Efficiency PhiPol (%)	7.12	7.43	7.07	6.59	6.68	7.15	6.83	6.51	6.65	7.00	6.33	6.52	6.84	6.15	5.86
Upper Hem. Efficiency (%)	26.65	27.14	31.30	32.95	28.58	31.14	30.45	31.06	37.99	33.44	28.10	36.79	40.03	35.09	34.46
Lower Hem. Efficiency (%)	25.17	27.27	33.01	31.64	27.86	29.41	32.72	30.82	31.40	31.21	28.63	30.26	34.51	32.96	27.47

