
SPECIFICATION FOR APPROVAL

Product Type	FPC/PIFA Antenna
SPECIFICATION	1575MHZ 2.4/5G/6E
Date of issue	2026.05.12
Released version	V0.4
Model number:	MT5825-1/3-ANT-V0.4 MT5825-WIFI-ANT-V0.5
Manufacture:	Shanghai Shangyuan Communication Technology Co., Ltd.
Address:	1F, Building 4, No. 99, Lane 215, Gaoguang Road, Qingpu District, Shanghai, China

3in 1 Antenna



Photo 1 Antenna

Antenna test result

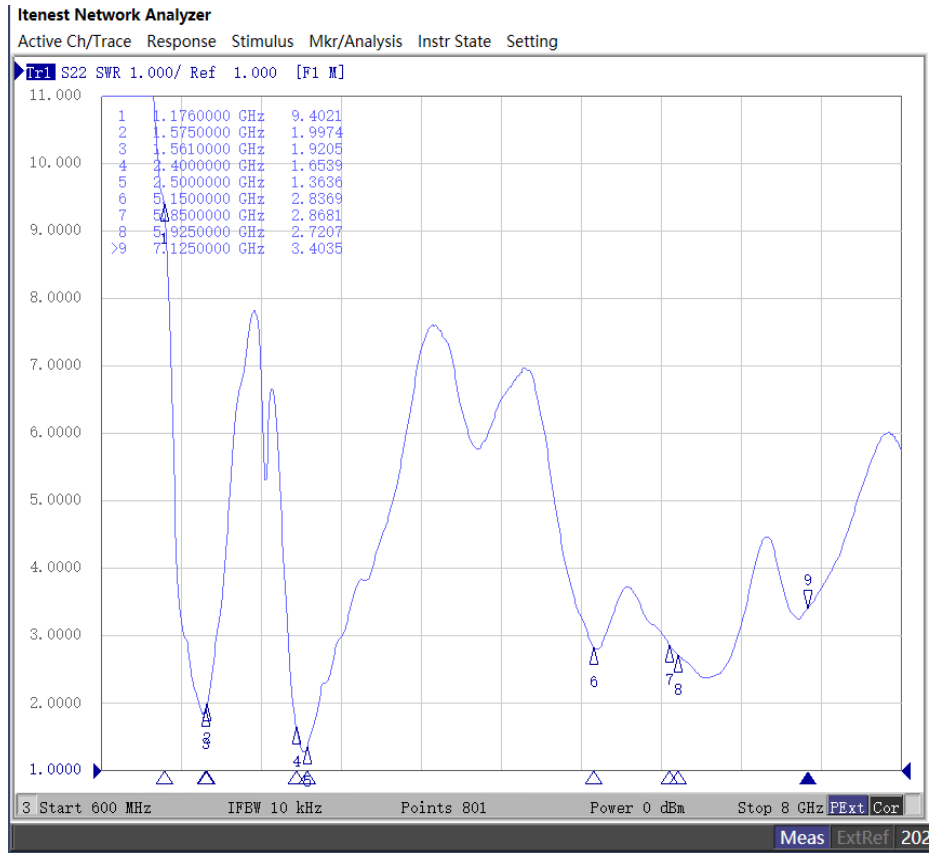


Photo2 3in1 reflection loss

Antenna efficiency

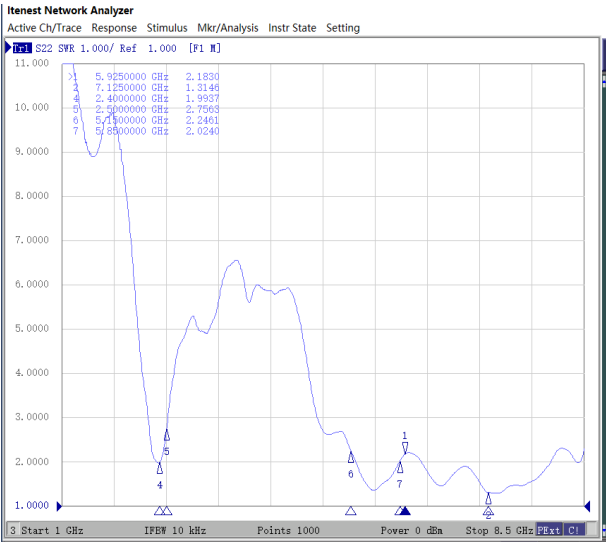
Freq. (MHz)	Effi (dB)	Effi (%)	Gain (dB)
1550	-4.63	34.45	1.26
1555	-4.52	35.33	0.96
1560	-4.43	36.08	1.05
1565	-4.56	35.01	1.08
1570	-4.46	35.83	1.17
1575	-4.40	36.32	1
1580	-4.28	37.35	0.92
1585	-4.39	36.41	0.73
1590	-4.30	37.17	0.6
2400	-4.21	37.95	1.62
2410	-4.61	34.61	1.33
2420	-4.28	37.35	1.63
2430	-4.68	34.06	1.76
2440	-4.20	38.04	1.75
2450	-4.49	35.59	1.97
2460	-4.10	38.93	1.57
2470	-4.39	36.41	1.38
2480	-4.19	38.12	0.96
2490	-4.49	35.59	0.84
2500	-4.28	37.35	0.93
5150	-5.34	29.25	1.05
5200	-4.84	32.82	1.2
5250	-4.63	34.44	1.53
5300	-4.49	35.57	0.8
5350	-4.62	34.52	0.76
5400	-4.52	35.32	0.96
5450	-4.81	33.04	0.64
5500	-4.58	34.85	0.89
5550	-4.88	32.52	0.64
5600	-5.00	31.63	0.71
5650	-5.28	29.65	0.72
5700	-5.39	28.91	0.75
5750	-5.58	27.68	0.7
5800	-5.64	27.30	1.08

5850	-5.31	29.46	1.13
5900	-4.65	34.29	0.87
5950	-5.16	30.49	1.11
6000	-5.52	28.06	1.09
6050	-5.47	28.39	1.42
6100	-5.41	28.78	1.65
6150	-5.14	30.63	1.85
6200	-4.87	32.59	1.69
6250	-4.92	32.21	1.6
6300	-4.60	34.68	1.15
6350	-4.53	35.25	1.35
6400	-4.61	34.61	0.53
6450	-4.60	34.68	0.42
6500	-4.58	34.85	0.55
6550	-4.85	32.75	0.46
6600	-5.27	29.72	0.46
6650	-5.31	29.46	0.78
6700	-5.83	26.12	0.64
6750	-6.01	25.07	0.18
6800	-6.34	23.24	0.68
6850	-6.32	23.34	0.22
6900	-5.93	25.54	0.42
6950	-6.04	24.89	0.13
7000	-6.18	24.11	0.52
7050	-5.89	25.77	0.27
7100	-6.03	24.95	0.18
7150	-6.48	22.50	0.47

WIFI Antenna



Antenna test result



Antenna efficiency

WiFi

Freq. (MHz)	Effi (%)	Effi (dB)	Gain (dB)
2400	-9.49	11.25	-5.56
2410	-9.83	10.40	-5.79
2420	-9.57	11.04	-5.31
2430	-9.93	10.16	-5.43
2440	-9.65	10.84	-5.07
2450	-10.19	9.57	-5.54
2460	-10.12	9.73	-5.62
2470	-10.46	8.99	-6.2
2480	-10.34	9.25	-6.14
2490	-10.81	8.30	-6.7
2500	-10.81	8.30	-6.06
5150	-11.08	7.80	-2.74
5200	-10.93	8.07	-2.1
5250	-11.10	7.76	-3.17
5300	-10.77	8.38	-2.83
5350	-10.69	8.53	-3.12
5400	-10.41	9.10	-2.73
5450	-10.28	9.38	-3.06
5500	-9.40	11.48	-3.9
5550	-9.23	11.94	-4.19
5600	-8.95	12.74	-3.16
5650	-8.77	13.27	-3.1
5700	-8.76	13.30	-3.08
5750	-8.67	13.58	-3.06
5800	-8.82	13.12	-2.77
5850	-9.15	12.16	-2.69
5900	-9.16	12.13	-2.13
5950	-9.59	10.99	-2.26
6000	-9.74	10.62	-2.45

6050	-9.77	10.54	-2.44
6100	-9.77	10.54	-3.34
6150	-9.69	10.74	-3.47
6200	-9.27	11.83	-2.6
6250	-9.38	11.53	-2.38
6300	-9.17	12.11	-2.16
6350	-9.20	12.02	-2.49
6400	-9.26	11.86	-2.22
6450	-9.47	11.30	-2.77
6500	-9.61	10.94	-3.26
6550	-9.80	10.47	-3.13
6600	-9.99	10.02	-3.04
6650	-9.72	10.67	-2.39
6700	-9.49	11.25	-2.28
6750	-9.21	11.99	-1.03
6800	-8.98	12.65	-0.86
6850	-8.75	13.34	-0.39
6900	-8.05	15.67	-0.03
6950	-7.97	15.96	-0.07
7000	-7.85	16.41	-0.11
7050	-7.45	17.99	0.16
7100	-7.59	17.42	-0.17
7150	-7.63	17.26	0.28