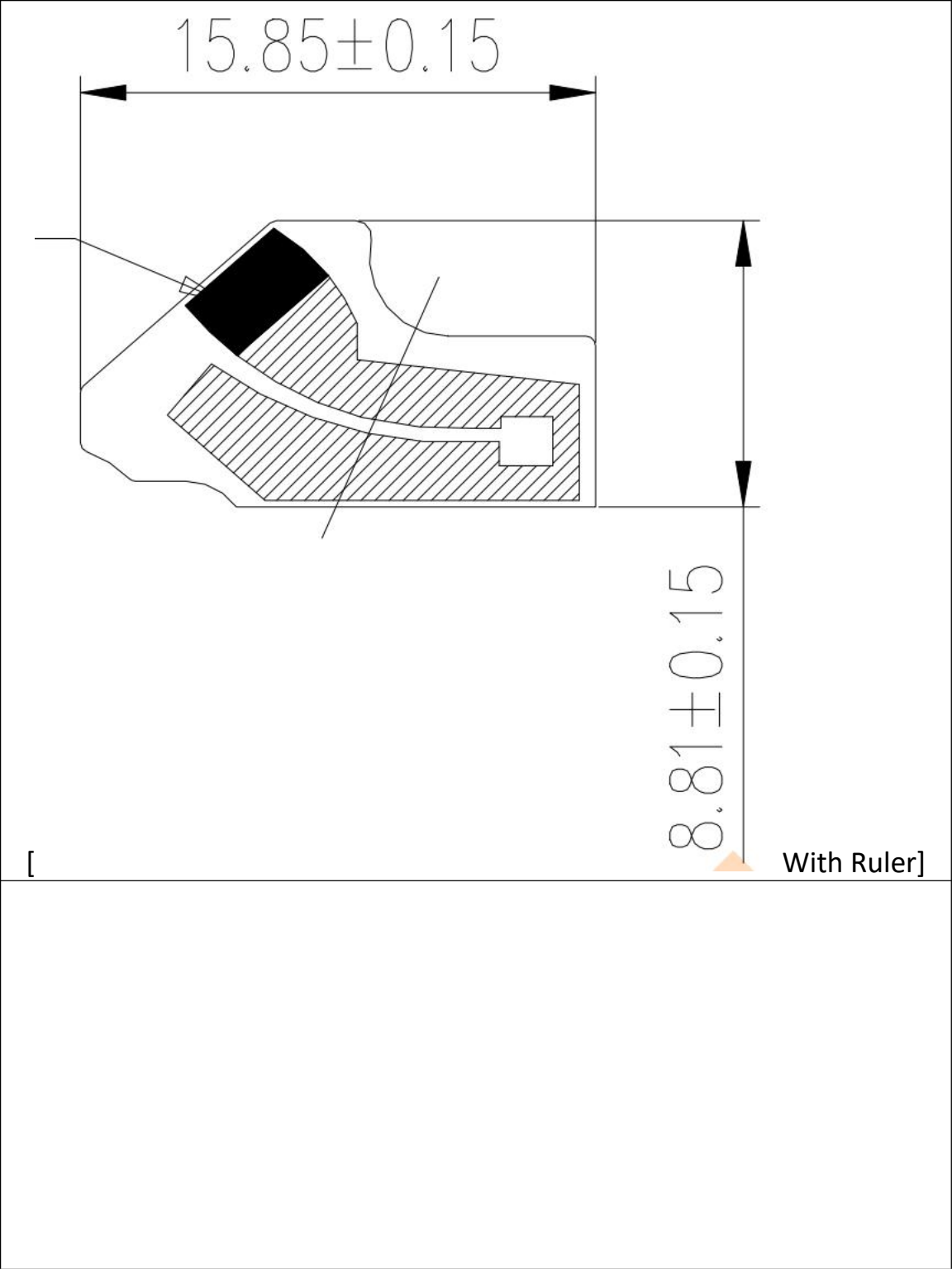


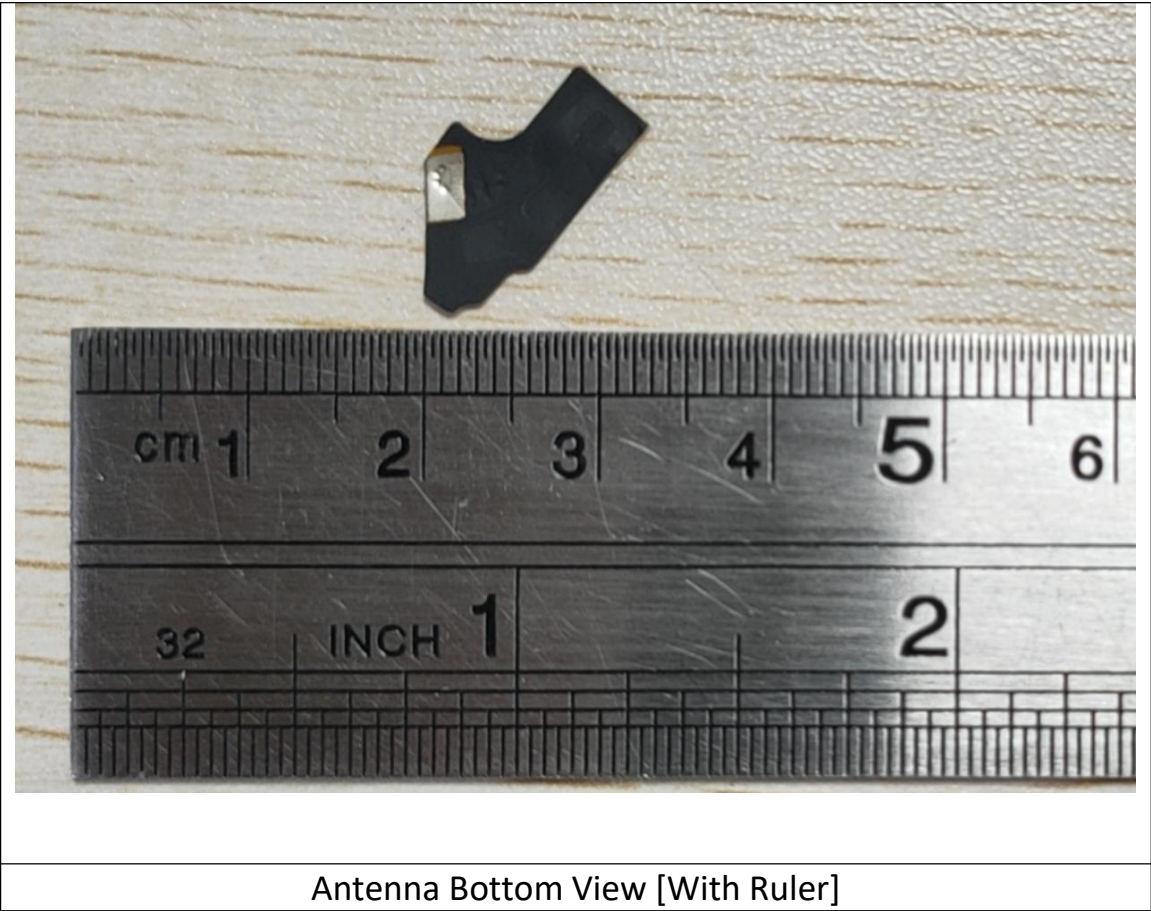
Antenna Information

Manufacturer	Shenzhen Panlong Communication Technology Co., Ltd.
Address	201, 2nd Floor, No. 8, North Second Lane, Liguang Water Plant, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province
Antenna Model	FPC antenna
Antenna Part Number	3.30.S61.001
Antenna Frequency Range	2400-2500MHz
Antenna Type	Onboard antenna
Antenna Peak Gain	-0.48dBi MAX
Antenna Dimension (LxHxW)	15.85mm*8.81mm

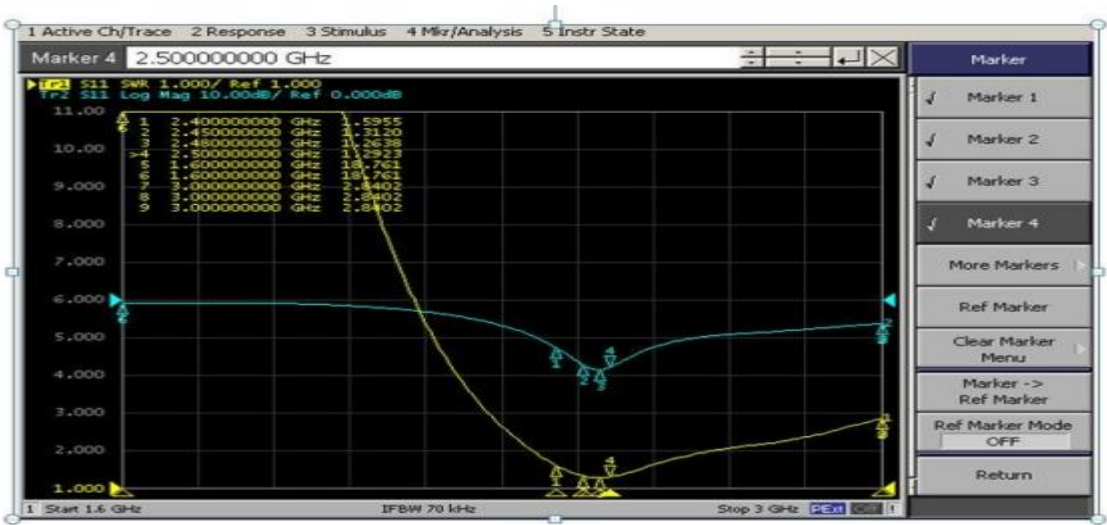
Antenna Photo







Antenna Pattern/Gain Measurement data/Table:



Shenzhen Panlong Communication Technology Co., Ltd.

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	-0.75	5.33	24.7%	-6.08	-0.75	18000	15000	-21.94	1500	1500	-5.94	21.19	5.19	-16.00
2	2410.0	2410.00	-0.86	5.10	25.3%	-5.96	-0.86	18000	15000	-20.90	1500	1500	-5.84	20.04	4.98	-15.06
3	2420.0	2420.00	-0.78	4.91	26.9%	-5.70	-0.78	18000	15000	-19.19	1500	1500	-5.60	18.41	4.81	-13.60
4	2430.0	2430.00	-1.05	4.80	26.0%	-5.85	-1.05	18000	16500	-18.87	3000	0	-5.76	17.82	4.71	-13.11
5	2440.0	2440.00	-1.07	4.67	26.7%	-5.74	-1.07	18000	16500	-18.54	3000	0	-5.67	17.46	4.60	-12.86
6	2450.0	2450.00	-0.96	4.62	27.7%	-5.58	-0.96	15000	9000	-18.17	3000	0	-5.53	17.21	4.57	-12.64
7	2460.0	2460.00	-0.62	4.61	30.0%	-5.23	-0.62	15000	9000	-18.07	3000	13680	-5.20	17.45	4.58	-12.87
8	2470.0	2470.00	-0.53	4.54	31.1%	-5.07	-0.53	15000	9000	-18.58	3000	13680	-5.05	18.05	4.53	-13.53
9	2480.0	2480.00	-0.48	4.53	31.6%	-5.01	-0.48	15000	9000	-18.61	3000	13680	-5.02	18.14	4.55	-13.59
10	2490.0	2490.00	-0.48	4.58	31.2%	-5.06	-0.48	15000	9000	-18.43	3000	13680	-5.10	17.95	4.62	-13.33
11	2500.0	2500.00	-0.02	4.69	33.8%	-4.71	-0.02	15000	9000	-18.43	3000	13680	-4.77	18.41	4.75	-13.66
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

