

# Antenna Specifications

## 1 Summary

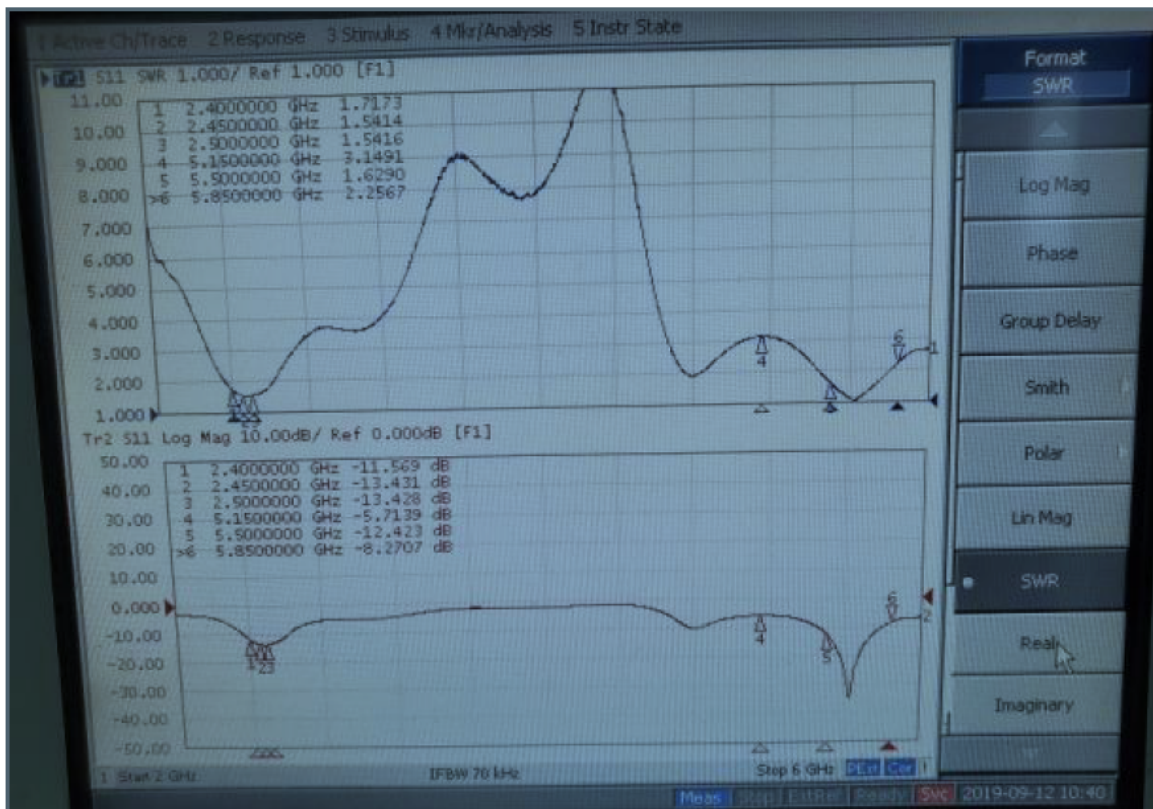
Design Specifications	Typical	Units
天线形式(Antenna Type)	FPC	
工作频率(working Frequency)	【2400-2500】 & 【5100-5800】	MHz
增益 ( Gain )	【1.75】 & 【1.79】	DBi
天线效率 ( Antenna efficiency )	【51.00-53.70】 & 【35.00-46.10】	%
电压驻波比 ( VSWR )	<3.5	
极化方式(Polarization)	N/A	N/A
轴比(Axial Ratio)	N/A	N/A
辐射方向(Radiation pattern)	全向	
馈电阻抗(impedance)	50 ohm	
功率容量(Power handling)	33	dBm
天线接口(Interface)	Ref. to page 3	mm
天线尺寸(Overall dimensions)	Ref. to page 3	mm
重量(Weight)	N/A	N/A
工作温度(Operatin Temp)	-30 ----- 70	°
储存温度(Storing Temp)	-30 ----- 70	°

# Antenna Specifications

## 2 VSWR

频段	频率 (MHz)	VSWR
2400-2500	2400	1.71
	2500	1.54
5100-5800	5150	3.14
	5500	1.62
	5800	2.25

### 2.1 SWR log mag



# Antenna Specifications

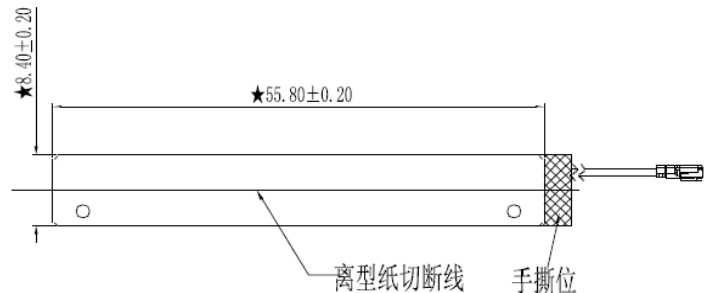
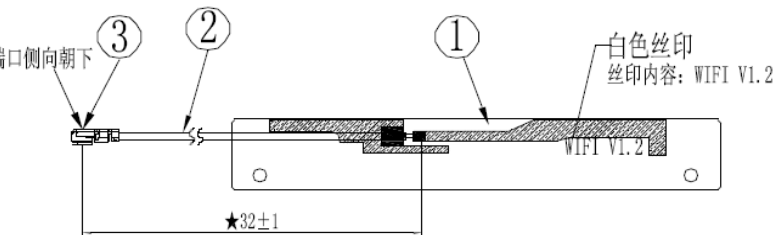
## 2.2 Antenna Efficiency

### 2.4G

FETUKEJI											
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
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-2.76	-2.91	-2.70	-2.72	-2.78	-2.84	-2.91	-2.85	-2.89	-2.89	-2.92
Peak EIRP (dBm)	1.23	0.89	1.19	1.24	1.31	1.31	1.44	1.59	1.66	1.52	1.75
Directivity (dBi)	4.00	3.80	3.89	3.96	4.09	4.15	4.36	4.44	4.55	4.41	4.67
Efficiency (dB)	-2.76	-2.91	-2.70	-2.72	-2.78	-2.84	-2.91	-2.85	-2.89	-2.89	-2.92
Efficiency (%)	52.90	51.20	53.70	53.50	52.70	52.00	51.10	51.80	51.40	51.50	51.00
Gain (dBi)	1.23	0.89	1.19	1.24	1.31	1.31	1.44	1.59	1.66	1.52	1.75
NHPRP ±Pi/4 (dBm)	-4.69	-4.93	-4.63	-4.63	-4.67	-4.70	-4.67	-4.66	-4.51	-4.54	-4.63
NHPRP ±Pi/6 (dBm)	-6.01	-6.24	-5.94	-5.92	-5.94	-5.96	-5.92	-5.89	-5.72	-5.73	-5.80
NHPRP ±Pi/8 (dBm)	-7.12	-7.33	-7.02	-7.00	-7.01	-7.02	-6.96	-6.90	-6.71	-6.70	-6.73
Upper Hem. PRP (dBm)	-6.79	-6.84	-6.52	-6.48	-6.49	-6.50	-6.53	-6.40	-6.36	-6.31	-6.29
Lower Hem. PRP (dBm)	-4.95	-5.16	-5.03	-5.09	-5.19	-5.29	-5.39	-5.39	-5.48	-5.52	-5.60
Upper Hem. PRP (%)	20.95	20.69	22.29	22.48	22.41	22.36	22.25	22.92	23.11	23.40	23.48
Lower Hem. PRP (%)	31.97	30.47	31.40	30.98	30.27	29.59	28.89	28.91	28.31	28.06	27.51

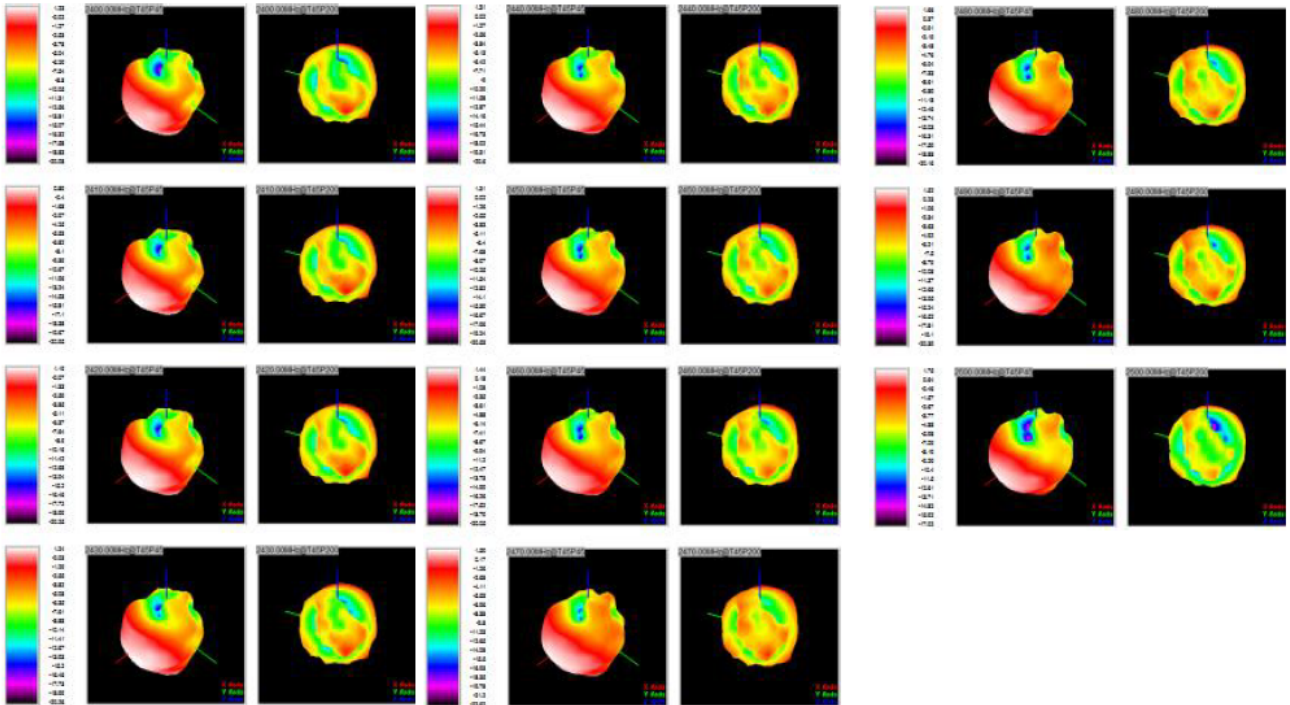
### 5.8G:

FETUKEJI																
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Frequency (MHz)	5200.0	5240.0	5280.0	5320.0	5360.0	5400.0	5440.0	5480.0	5520.0	5560.0	5600.0	5640.0	5680.0	5720.0	5760.0	5800.0
Point Values																
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-4.56	-4.08	-4.07	-3.74	-3.24	-3.76	-3.91	-3.67	-4.04	-3.40	-3.71	-3.46	-3.37	-3.79	-3.58	-3.96
Peak EIRP (dBm)	-0.41	0.05	0.02	0.32	0.35	0.35	0.53	1.26	0.31	1.79	1.49	0.49	1.23	0.61	1.30	0.21
Directivity (dBi)	4.15	4.13	4.09	4.06	3.59	4.11	4.45	4.93	4.35	5.19	5.20	3.95	4.60	4.40	4.88	4.17
Efficiency (dB)	-4.56	-4.08	-4.07	-3.74	-3.24	-3.76	-3.91	-3.67	-4.04	-3.40	-3.71	-3.46	-3.37	-3.79	-3.58	-3.96
Efficiency (%)	35.00	39.10	39.10	42.30	47.40	42.00	40.60	42.90	39.50	45.70	42.60	45.10	46.10	41.70	43.90	40.10
Gain (dBi)	-0.41	0.05	0.02	0.32	0.35	0.35	0.53	1.26	0.31	1.79	1.49	0.49	1.23	0.61	1.30	0.21
NHPRP ±Pi/4 (dBm)	-7.33	-6.89	-6.71	-6.43	-6.23	-6.36	-6.58	-6.00	-6.83	-5.60	-5.48	-6.39	-5.48	-6.24	-5.41	-6.59
NHPRP ±Pi/6 (dBm)	-8.65	-8.15	-7.94	-7.63	-7.41	-7.51	-7.70	-7.10	-7.91	-6.64	-6.50	-7.36	-6.46	-7.18	-6.34	-7.51
NHPRP ±Pi/8 (dBm)	-9.65	-9.12	-8.89	-8.57	-8.35	-8.46	-8.58	-7.96	-8.74	-7.47	-7.30	-8.11	-7.23	-7.93	-7.09	-8.23
Upper Hem. PRP (dBm)	-8.51	-7.88	-7.73	-7.31	-6.72	-7.27	-7.25	-6.97	-7.27	-6.60	-6.86	-6.49	-6.38	-6.76	-6.56	-6.81
Lower Hem. PRP (dBm)	-6.81	-6.43	-6.52	-6.26	-5.83	-6.32	-6.62	-6.41	-6.83	-6.22	-6.57	-6.44	-6.36	-6.84	-6.62	-7.14
Upper Hem. PRP (%)	14.11	16.29	16.85	18.60	21.30	18.73	18.82	20.09	18.74	21.88	20.59	22.42	23.02	21.06	22.08	20.83
Lower Hem. PRP (%)	20.86	22.77	22.28	23.69	26.13	23.31	21.78	22.85	20.74	23.86	22.01	22.70	23.03	20.68	21.77	19.31



## 3 Antenna Pattern

### 2.4G:





5.8G:

