

# Antenna Specification

Product description: 2.4G PCB Antenna

UniLink's part: ANTENNA-2400-2500A(Zigbee)

Number: Issue Date: 2023-5-10

Note: 2400-2500MHz

Manufacturer: Shenzhen Sonoff Technologies Co.,Ltd.

Address: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen,  
Guangdong, China

## 1、 (PRODUCT TECHNICAL SPECIFICATION)

Electrical Specifications	
Frequency Range (MHz)	2400-2500
Input Impedance ( $\Omega$ )	50
V.S.W.R	$\leq 1.5$
Gain (dBi)	1.42
Polarization Type	Horizontal
Power Capacity (w)	2
Mechanical Specifications	
Antenna Length (mm)	
Radiator	Cuprum
Connect Type	NC
Working Temp( $^{\circ}\text{C}$ )	-10~40
Storage Temperature( $^{\circ}\text{C}$ )	-20~55
antenna size	PCBant
Weight (g)	

## 2. Image of antenna S11



## 3. Antenna gain

<b>FETUKEJI</b>											
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)	-4.30	-4.50	-4.30	-4.20	-4.00	-4.00	-4.15	-3.90	-3.95	-3.80	-3.75
Peak EIRP (dBm)	1.20	1.10	1.20	1.25	1.30	1.30	1.18	1.42	1.38	1.23	1.20
Directivity (dBi)	5.50	5.60	5.50	5.45	5.30	5.30	5.32	5.32	5.33	5.03	4.95
Efficiency (dB)	-4.30	-4.50	-4.30	-4.20	-4.00	-4.00	-4.15	-3.90	-3.95	-4.10	-4.30
Efficiency (%)	37.15	35.48	37.15	38.02	39.80	39.80	38.45	40.27	42.20	38.90	37.15
Gain (dBi)	1.20	1.10	1.20	1.25	1.30	1.30	1.18	1.42	1.38	1.23	1.20
NHPRP ±Pi/4 (dBm)	-6.43	-6.33	-6.48	-5.56	-6.33	-6.48	-6.38	-6.64	-7.05	-7.40	-8.10
NHPRP ±Pi/6 (dBm)	-8.13	-8.07	-7.60	-7.38	-8.16	-8.21	-8.32	-8.48	-8.58	-9.34	-9.70
NHPRP ±Pi/8 (dBm)	-9.28	-9.29	-8.75	-8.33	-9.31	-9.25	-9.13	-9.43	-9.63	-10.31	-10.48
Upper Hem. PRP (dBm)	-7.03	-7.02	-6.96	-9.65	-6.93	-7.00	-7.04	-10.27	-6.60	-7.07	-6.95
Lower Hem. PRP (dBm)	-7.60	-8.07	-7.70	-7.47	-7.10	-7.03	-7.28	-6.82	-6.92	-7.16	-7.71
Upper Hem. PRP (%)	19.80	19.88	20.15	20.12	20.30	20.00	19.75	20.77	21.90	19.65	20.19
Lower Hem. PRP (%)	17.35	15.60	17.00	17.90	19.50	19.80	18.70	19.50	20.30	19.25	16.96

Efficiency (%)





