

# Antenna specification

## 天线规格书

Manufacturer Shenzhen Fuxiang Electronics Co., LTD

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Address No. 88, Longback Industry, Baolong Street, Shenzhen

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Model/型号: 1PL33 VER: 1.0

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Prepared By/Date 于位华 /2022. 11. 15  
编制/日期

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Checked By/Date 审核/ 吴国玺 /2022. 11. 15  
日期

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Approved By/Date 批 赖胜雄/2022. 11. 15  
准/日期

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## 1. Mode name: Wire antenna

### Technical requirements:

- There should be no damage, line damage and other phenomena.
- There should be no slit after dipping tin.
- OD:  $\text{Ø}1.3 \pm 0.1$ , Copper wire OD:  $0.15 \pm 0.01$ , 17core

## 2. PHOTO



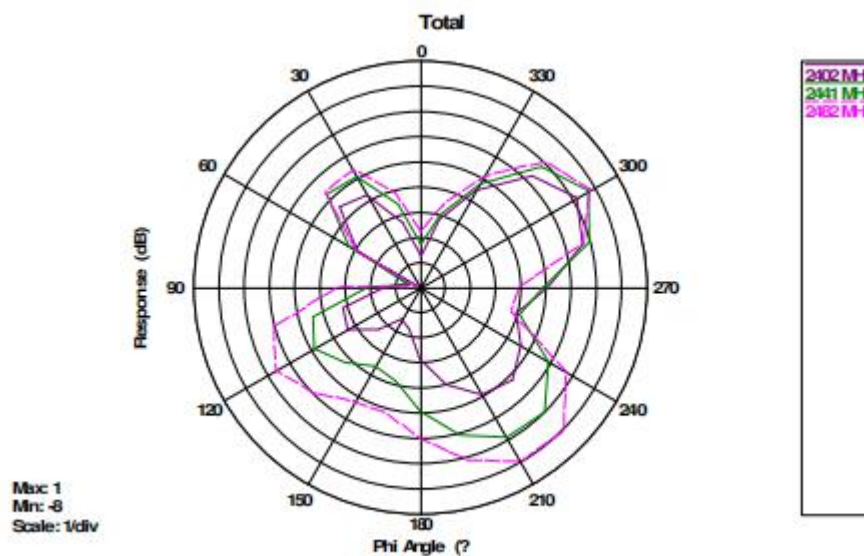
## 3. Size: Length 33mm, Diameter 1.3mm

# Antenna gain

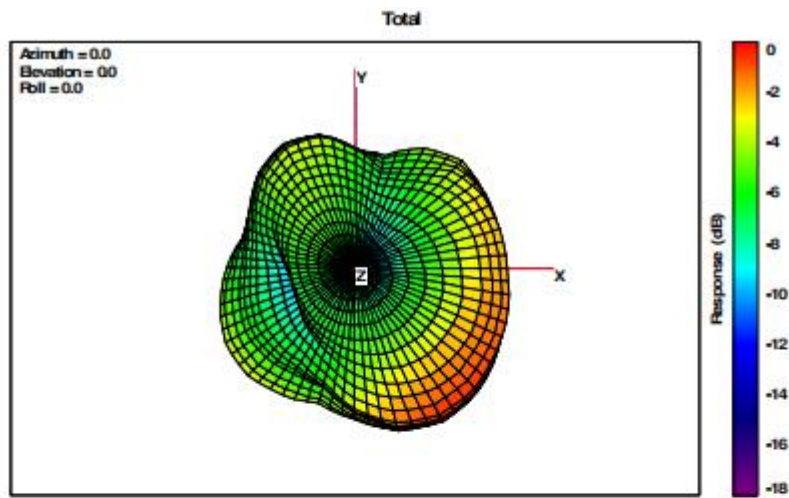
2.4GHz Antenna			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-5.00	31.59	-0.47
2402	-4.98	31.80	-0.45
2412	-4.75	33.46	-0.28
2420	-4.57	34.94	-0.19
2430	-4.27	37.41	0.09
2435	-4.17	38.25	0.09
2437	-4.10	38.87	0.16
2440	-3.98	39.97	0.30
2441	-3.95	40.30	0.33
2442	-3.92	40.53	0.34
2445	-3.86	41.07	0.32
2450	-3.75	42.13	0.39
2455	-3.60	43.68	0.52
2462	-3.46	45.06	0.50
2465	-3.40	45.71	0.56
2472	-3.29	46.84	0.52
2475	-3.26	47.20	0.50
2480	-3.17	48.22	0.58
2482	-3.12	48.72	0.58
2485	-3.08	49.25	0.52

## 4. APPENDIX A S - Parameter & Antenna Radiation Patterns

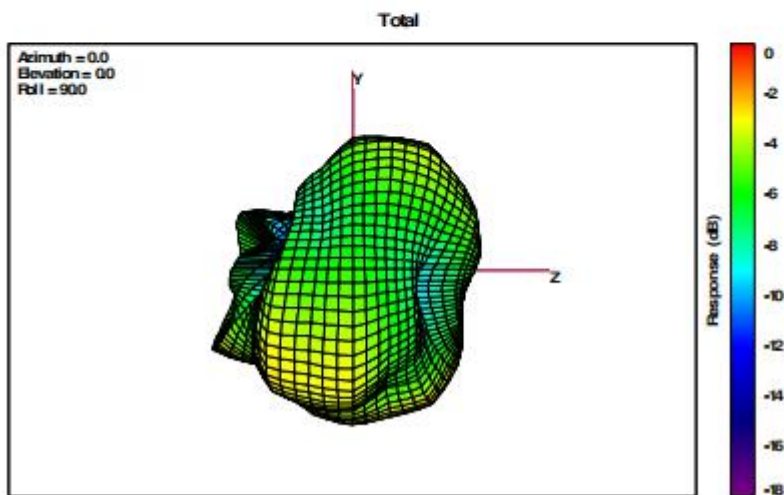
### 4.1. 2-D Antenna Pattern ( **Theta=90°** )



## 4.2. 3-D Antenna Pattern



Front View



Side View