

## PCB Antenna Specification

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Model: PCB Antenna

### 一、 Antenna size

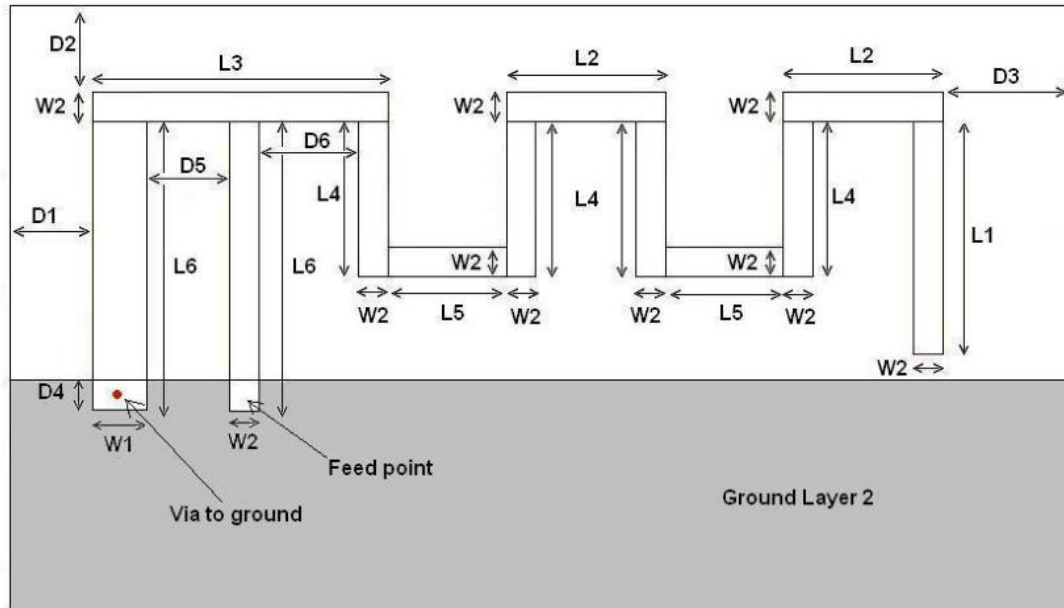


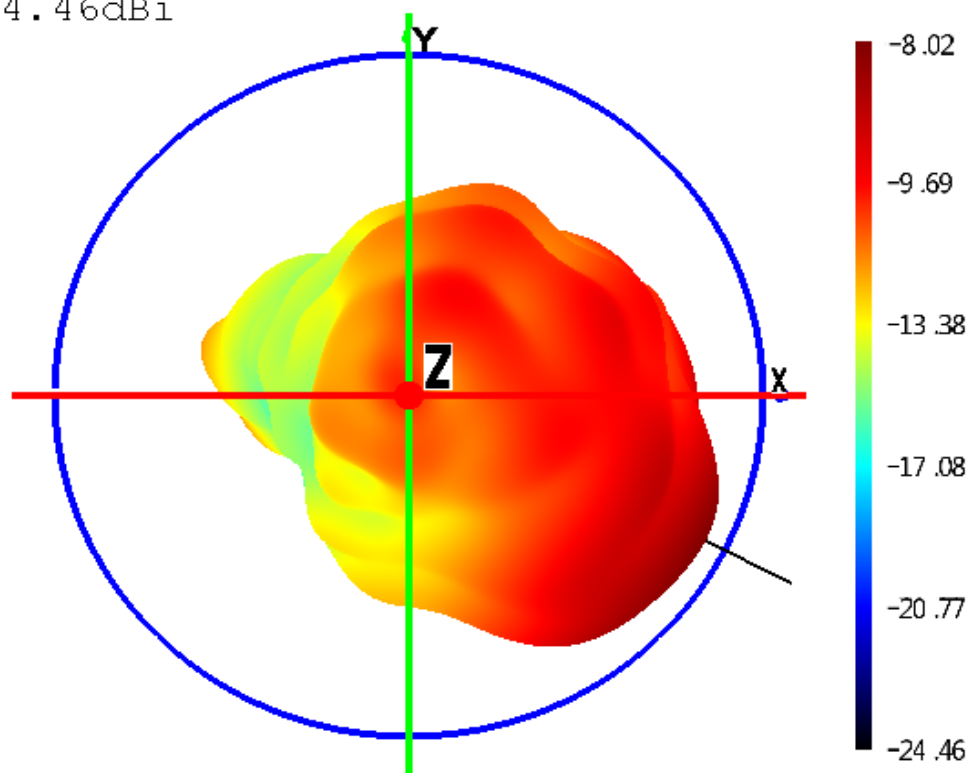
Figure 3: Antenna Dimensions

|    |         |
|----|---------|
| L1 | 3.94 mm |
| L2 | 2.70 mm |
| L3 | 5.00 mm |
| L4 | 2.64 mm |
| L5 | 2.00 mm |
| L6 | 4.90 mm |
| W1 | 0.90 mm |
| W2 | 0.50 mm |
| D1 | 0.50 mm |
| D2 | 0.30 mm |
| D3 | 0.30 mm |
| D4 | 0.50 mm |
| D5 | 1.40mm  |
| D6 | 1.70 mm |

Table 1: Antenna Dimensions

## 二、 Gain pattern

MAX: -8.02dBi  
MIN: -24.46dBi



三、Efficiency&Gain

| FEITUKE-II                 |        |        |        |        |        |        |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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)       | -13.13 | -13.46 | -13.76 | -13.62 | -13.64 | -13.91 | -13.93 | -13.97 | -14.17 | -13.86 | -13.96 |
| Peak EIRP (dBm)            | -8.31  | -8.36  | -8.36  | -8.02  | -8.07  | -8.40  | -8.47  | -8.85  | -9.53  | -9.40  | -9.65  |
| Directivity (dBi)          | 4.82   | 5.10   | 5.40   | 5.60   | 5.57   | 5.51   | 5.46   | 5.13   | 4.64   | 4.46   | 4.31   |
| Efficiency (dB)            | -13.13 | -13.46 | -13.76 | -13.62 | -13.64 | -13.91 | -13.93 | -13.97 | -14.17 | -13.86 | -13.96 |
| Efficiency (%)             | 4.90   | 4.50   | 4.20   | 4.30   | 4.30   | 4.10   | 4.00   | 4.00   | 3.80   | 4.10   | 4.00   |
| Gain (dBi)                 | -8.31  | -8.36  | -8.36  | -8.02  | -8.07  | -8.40  | -8.47  | -8.85  | -9.53  | -9.40  | -9.65  |
| NHPRP ±Pi/4 (dBm)          | -13.75 | -13.84 | -13.88 | -13.57 | -13.64 | -13.91 | -13.94 | -14.18 | -14.75 | -14.51 | -14.66 |
| NHPRP ±Pi/6 (dBm)          | -15.05 | -15.12 | -15.14 | -14.83 | -14.91 | -15.18 | -15.22 | -15.46 | -16.04 | -15.79 | -15.94 |
| NHPRP ±Pi/8 (dBm)          | -16.03 | -16.08 | -16.10 | -15.80 | -15.90 | -16.19 | -16.24 | -16.49 | -17.07 | -16.80 | -16.94 |
| Upper Hem. PRP (dBm)       | -15.88 | -16.18 | -16.45 | -16.27 | -16.25 | -16.50 | -16.49 | -16.53 | -16.71 | -16.37 | -16.45 |
| Lower Hem. PRP (dBm)       | -16.42 | -16.78 | -17.12 | -17.03 | -17.10 | -17.39 | -17.45 | -17.49 | -17.70 | -17.43 | -17.56 |
| Upper Hem. PRP (%)         | 2.59   | 2.41   | 2.27   | 2.36   | 2.37   | 2.24   | 2.24   | 2.22   | 2.13   | 2.31   | 2.26   |
| Lower Hem. PRP (%)         | 2.28   | 2.10   | 1.94   | 1.98   | 1.95   | 1.83   | 1.80   | 1.78   | 1.70   | 1.81   | 1.76   |

