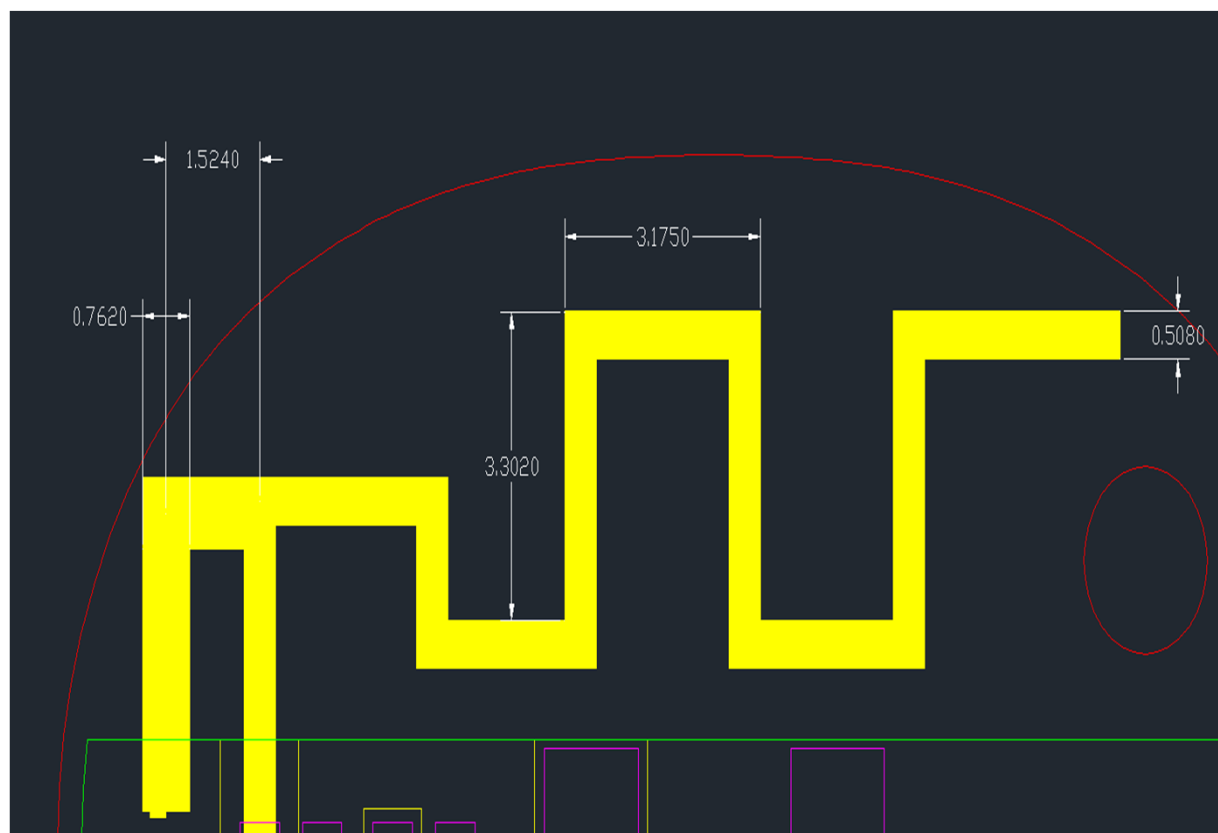


Specifications for onboard PCB antennas

Manufacturer:Nanchao Technology (Shenzhen) Co., Ltd.

| Specification             |                                        |
|---------------------------|----------------------------------------|
| 1.1 Electrical Properties |                                        |
| Characteristics           | Specifications                         |
| Working Band              | 2.4G                                   |
| Antenna From              | PCB                                    |
| Impedance                 | 50 Ω                                   |
| Polarization              | Linear                                 |
| Peak Effi                 | <a href="#">48%@2.4G (typical)</a>     |
| Peak Gain                 | <a href="#">0.76dBi@2.4G (typical)</a> |
|                           |                                        |
| 1.2 Physical Properties   |                                        |
| Characteristics           | Specifications                         |
| Operating Temp            | -20℃--60℃                              |
| Storage Temp              | -20℃--70℃                              |
| Humidity                  | 10~95%RH                               |

Size specifications (mm)



| Test Data |                  |          |           |            |  |
|-----------|------------------|----------|-----------|------------|--|
|           | Efficiency Table |          |           |            |  |
|           | Freq (MHz)       | Effi (%) | Effi (db) | Gain (dbi) |  |
|           | 2400             | 31.14    | -4.78     | 0.76       |  |
|           | 2410             | 29.92    | -5.00     | 0.61       |  |
|           | 2420             | 30.06    | -4.98     | 0.36       |  |
|           | 2430             | 29.81    | -5.01     | 0.31       |  |
|           | 2440             | 30.1     | -4.97     | 0.22       |  |
|           | 2450             | 32.43    | -4.66     | 0.27       |  |
|           | 2460             | 32.38    | -4.67     | 0.06       |  |
|           | 2470             | 31.35    | -4.80     | -0.33      |  |
|           | 2480             | 31.03    | -4.84     | -0.34      |  |