

## 1. SECIFICATIONS

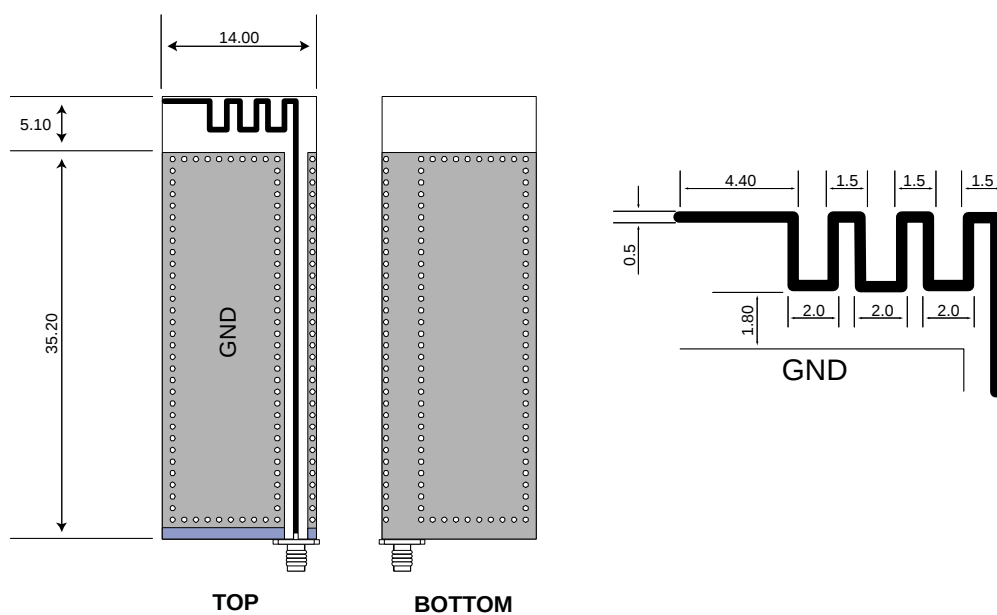
### 1.1 Electrical Specifications

| ITEM                 | SPEC             | UNIT     |
|----------------------|------------------|----------|
| Center Frequency     | 2.4~2.485        | GHz      |
| Gain                 | -1.5(MAX)        | dBi      |
| VSWR                 | 1.8:1            |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50               | $\Omega$ |

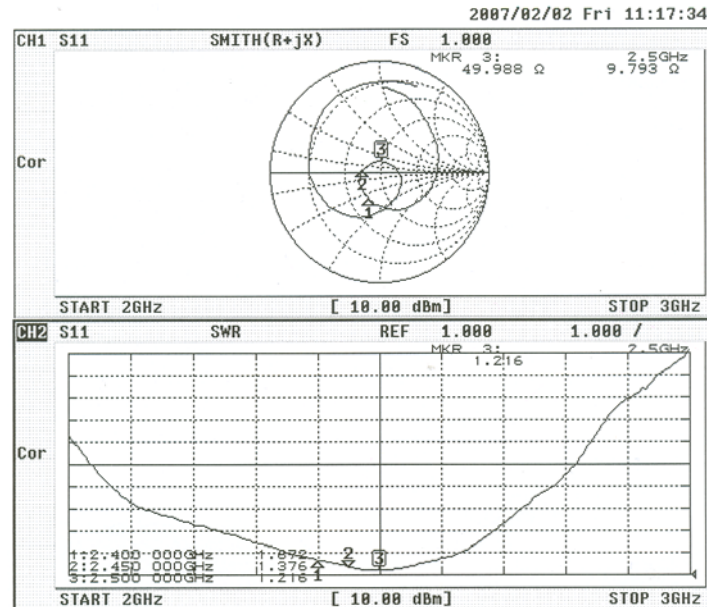
### 1.2 Mechanical Specification

| ITEM                  | SPEC                | UNIT |
|-----------------------|---------------------|------|
| Size                  |                     | mm   |
| Radiator Material     | Brass(Gold coating) |      |
| Operation Temperature | -40~+ 90            | ℃    |

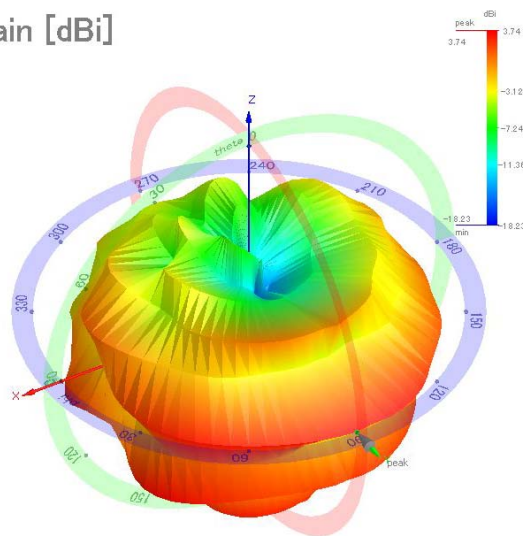
### 1.3 Appearance and Dimensions



## 2. EASUREMENT (Bluetooth matching on the reference test board)



Gain [dBi]



| Freq.[MHz] | Polarization | Beam Peak |      |       | Beam Null |      |       | Gain[dBi] | Efficiency |
|------------|--------------|-----------|------|-------|-----------|------|-------|-----------|------------|
|            |              | Value     | Phi  | Theta | Value     | Phi  | Theta |           |            |
| 2400       |              | 3.568     | -110 | 90    | -13.702   | 65   | 15    | -1.773    | 66.485%    |
| 2450       |              | 3.744     | -90  | 90    | -18.227   | -90  | 150   | -1.622    | 68.836%    |
| 2500       |              | 3.847     | -85  | 90    | -19.752   | -130 | 165   | -1.989    | 63.263%    |