

## 2.4GHz Chip Antenna: YL5022H1R2G45

### Application:

WLAN, 802.11b/g, Bluetooth, etc...

### Features

SMD, high reliability, ultra Impact, Omni-directional...

### Part number

YL 5022 H1 R 2G45  
 (1) (2) (3) (4) (5)

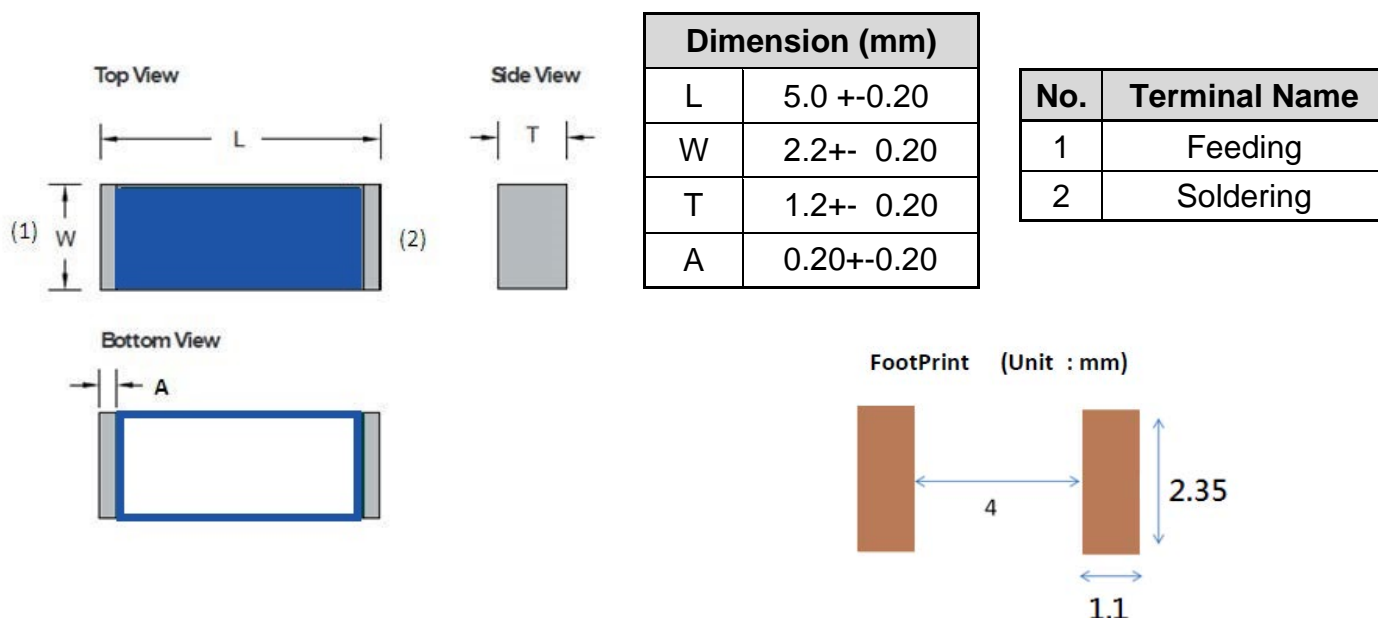
|                  |               |
|------------------|---------------|
| (1) Product Type | Chip Antenna  |
| (2) Size Code    | 5.0x2.0mm     |
| (3) Type Code    | H1            |
| (4) Packing      | Tape and reel |
| (5) Frequency    | 2.45GHz       |

### Electrical Specification

|                           |                  |
|---------------------------|------------------|
| Working Frequency Range   | 2400 ~2484 MHz   |
| Peak Gain                 | 1.7dBi (Typ.)    |
| Impedance                 | 50 Ohm           |
| Return loss               | 10 dB ( Min)     |
| Polarization              | Linear           |
| Azimuth Beamwidth         | Omni-directional |
| Operation Temperature(°C) | -40 ~85°C        |

The specification is defined on EVB.

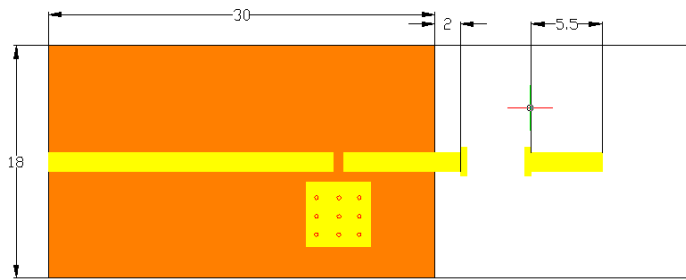
### Dimension and Terminal Configuration



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## Evaluation Board Reference

### PCB Dimension & Antenna Layout Reference

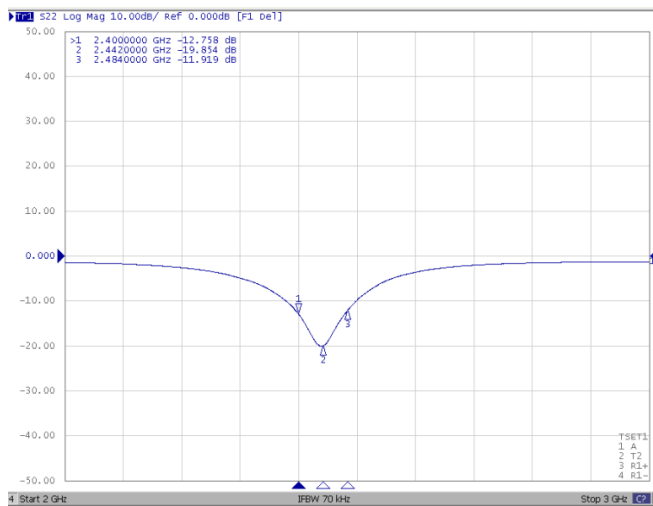


unit :mm

## Electrical Characteristics

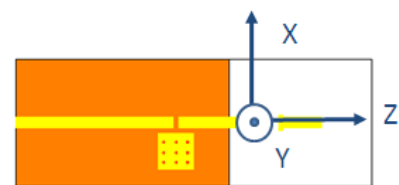
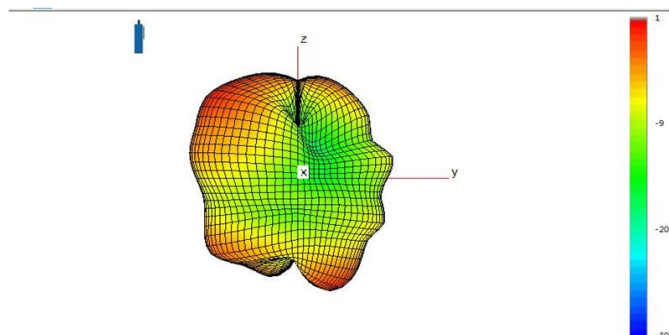
### Return Loss & Radiation

#### Return Loss



| Frequency (MHz) | S11 (dB) |
|-----------------|----------|
| 2400            | -12.8    |
| 2442            | -19.8    |
| 2484            | -11.9    |

#### Radiation



#### 2.45GHz

|            |         |
|------------|---------|
| Frequency  | 2445MHz |
| Peak gain  | 1.7dBi  |
| Efficiency | 80.2%   |