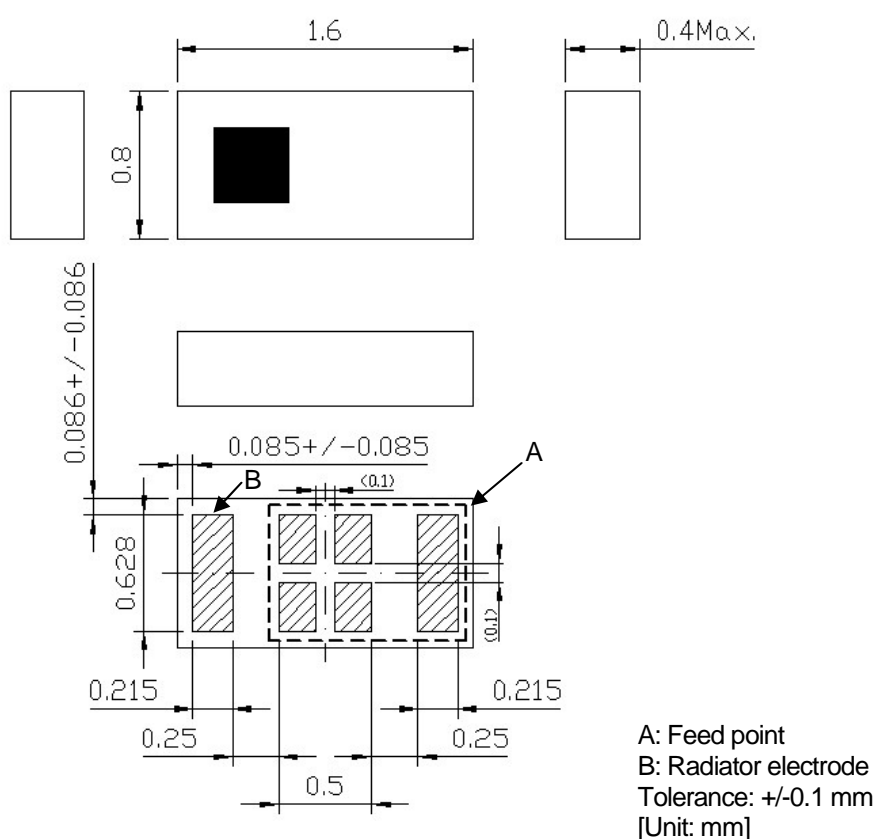


# CHIP MULTILAYER ANTENNA FOR 2.4GHz band

SAMPLE P/N: ANT016008LCS2442MA1

Antenna Keep-out Area: 3x5mm<sup>2</sup>

**[MECHANICAL DIMENSIONS]**



## [ELECTRICAL CHARACTERISTICS]

PARAMETER		UNIT
Center Frequency	2442	MHz
Band Width	+/-42	MHz
VSWR at BW	TBD	
Polarization	Linear	
Impedance	50	ohm
PCB size	50 x 20 x 1.0	mm <sup>3</sup>
Antenna keep-out Area	3 x 5	mm <sup>2</sup>

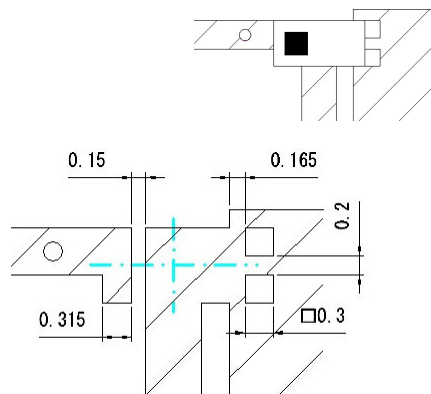
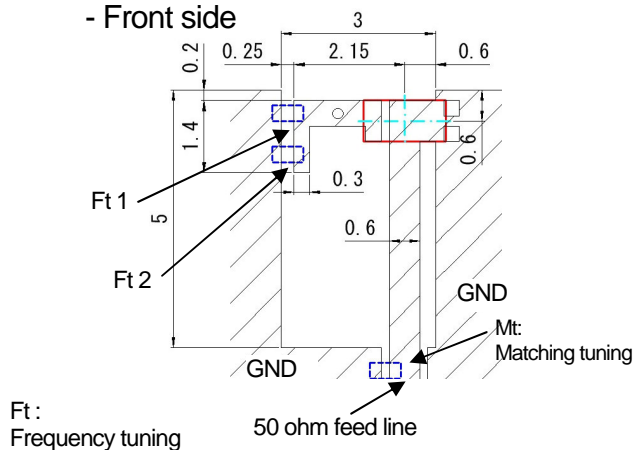
\* This is typical antenna performance with the standard PCB.

Operating temperature	-40	+85	℃
Storage temperature	-40	+85	℃

**[RECOMMENDED PCB PATTERN]**

## Electrode

- Front side

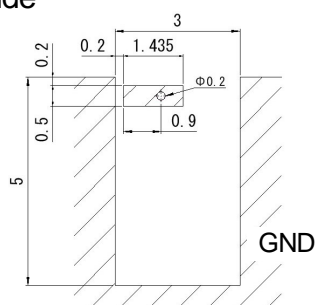


Ft:  
Frequency tuning

50 ohm feed line

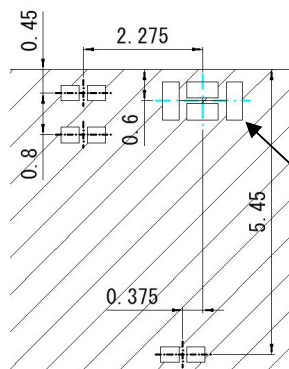
Mt:  
Matching tuning

- Back side



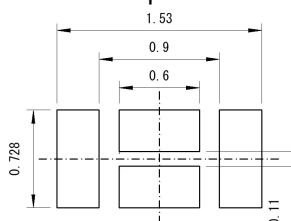
- Center line of chip antenna
- Chip antenna
- Matching component
- Via

- Front side  
**Solder Resist**

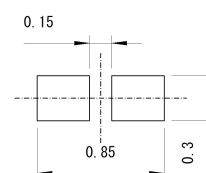


Chip antenna

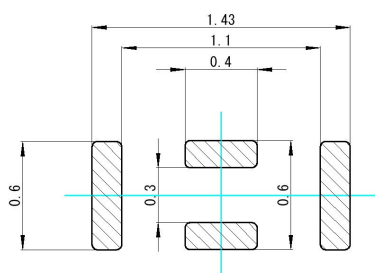
For Chip antenna



For 0603 size

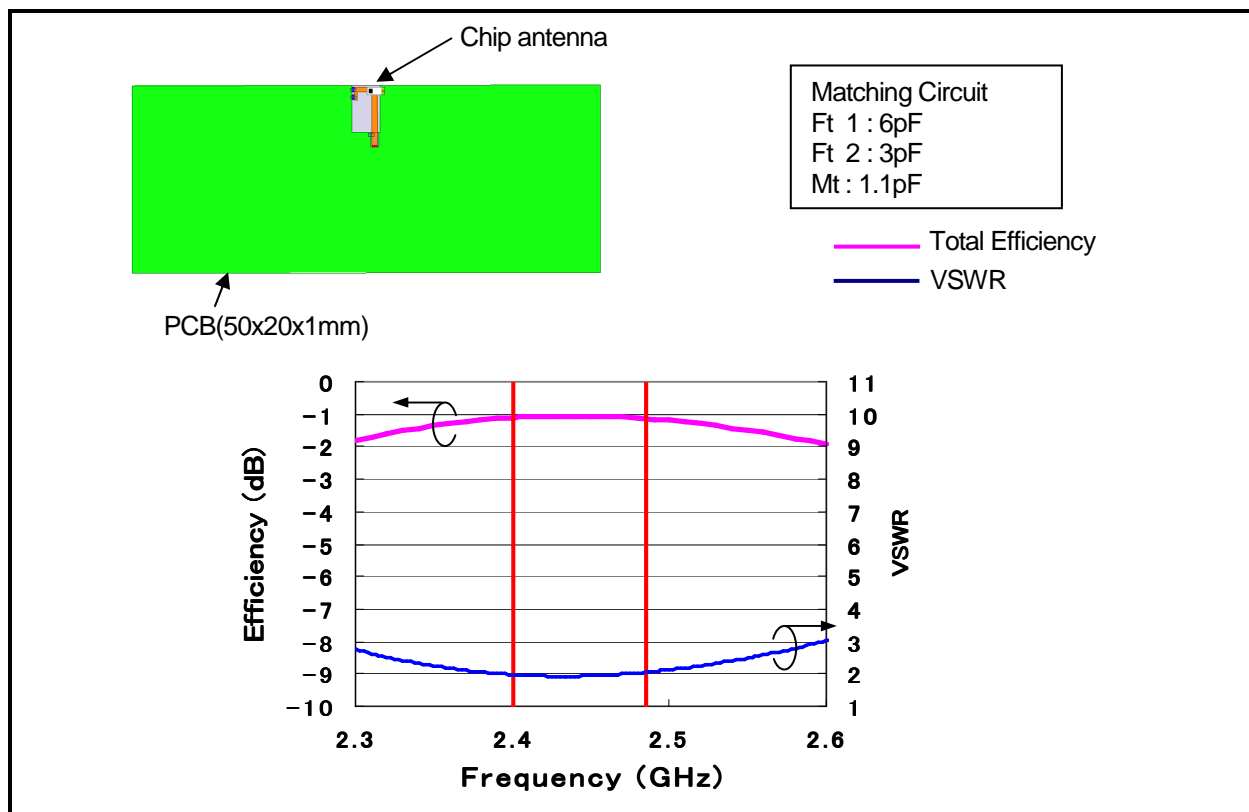


### Recommend aperture size of metal mask for solder printing

 Aperture of metal mask

[Unit: mm]

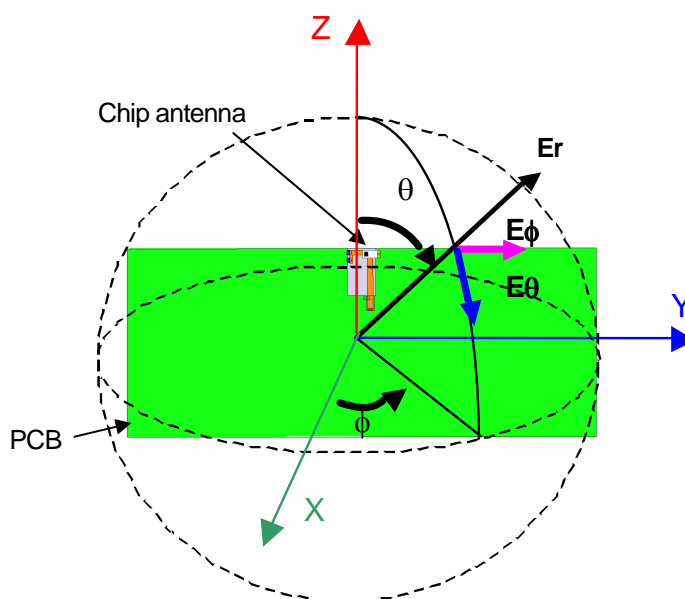
## [EFFICIENCY AND VSWR by Simulation]



Note: Evaluation board size is  $50 \times 20 \times 1 \text{ mm}^2$  Tested antenna has been soldered.

## [RADIATION PATTERN]

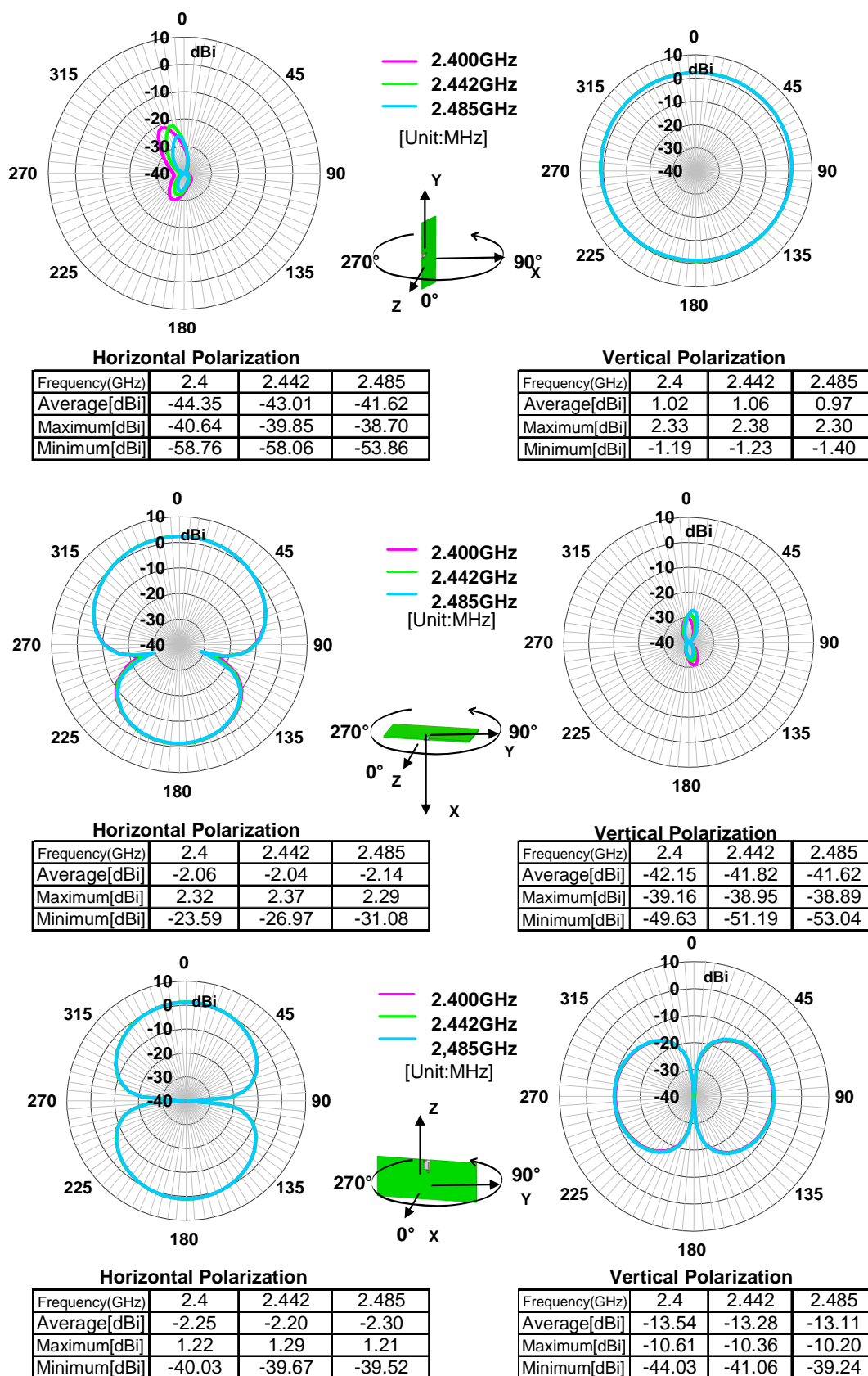
### Measurement Method



Note: Evaluation board size is  $50 \times 20 \times 1 \text{ mm}^2$  Tested antenna has been soldered.

All specifications are subject to change without notice and are not guaranteed.

## [ RADIATION PATTERN by Simulation ]



Note: Evaluation board size is 50 x 20 x 1 mm<sup>2</sup> Tested antenna has been soldered.

All specifications are subject to change without notice and are not guaranteed.

## ENVIRONMENT INFORMATION

### 1. RoHS STATEMENT

ROHS Compliance

### 2. Non-Use of Halogen (Bromine and Chlorine)

The product does not include Halogens and their compounds based on the following definition.

- Bromine(Br)  $\leq 900\text{ppm}^*$
- Chlorine(Cl)  $\leq 900\text{ppm}^*$
- (Bromine(Br)+Chlorine(Cl)  $\leq 1500\text{ppm}^*$ )  
(\*Certain homogeneous materials)