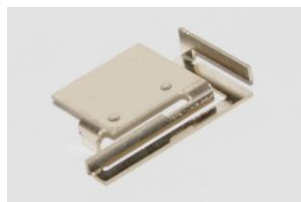


Metal Structural Antenna

1. Features

- Provide customers with design, material selection, and antenna circuit design consultation
- Provide use wire cut electrical discharge machining process of sample making services
- Low cost sample production
- Increase production quantity
- Halogen-free compliance



2. Description

Cirocomm uses wire cut electrical discharge machining and s process for communication antenna applications.

Based on Girocomm's proprietary antenna design and process, these series of antenna have excellent stability and sensitivity to provide high signal reception efficiency consistently.

3. Applications

- Tracker
- Mobile Phone
- Personal Digital Assistant (PDAs)
- Portable Navigation Device (PNDs)
- Mobile Internet Device (MIDs)
- Netbook/NotBook/Tablet PC

4. Specification

Product Name	Part Number	Bandwidth (MHz) At 2:1 VSWR	Efficiency (%)	Dimension (mm ³)	Clearance Area (mm ²)	Reference Outline
MPA2442A	03H40E4B000A120	200	>50	20.5x7.55x3	-----	O
MPA2450B	03H15E3E0009120	200	>50	22.2x7.55x3	-----	P

* Actual value will depend on customer ground plane size



SPECIFICATION

SPEC NO. : SP03AF2450C-0020

PART NO. : 03H15E3E0009120

PRODUCT NAME : MPA2450B

DESCRIPTION : Metal PIFA Antenna
(22.2x3.0x7.55mm)
ROHS Compliant Product

1.0 SCOPE

This specification covers the Metal PIFA antenna for **2400-2500** MHz .

2.0 Name of the product

This product is named “Metal Planer Inverted - F Antenna”

3.0 Electrical characteristics

3-1 Electrical characteristics of antenna

The antenna has the electrical characteristics given in Table 1 under the *cirocomm* standard installation conditions shown in the figure of Evaluation Board.

Table 1

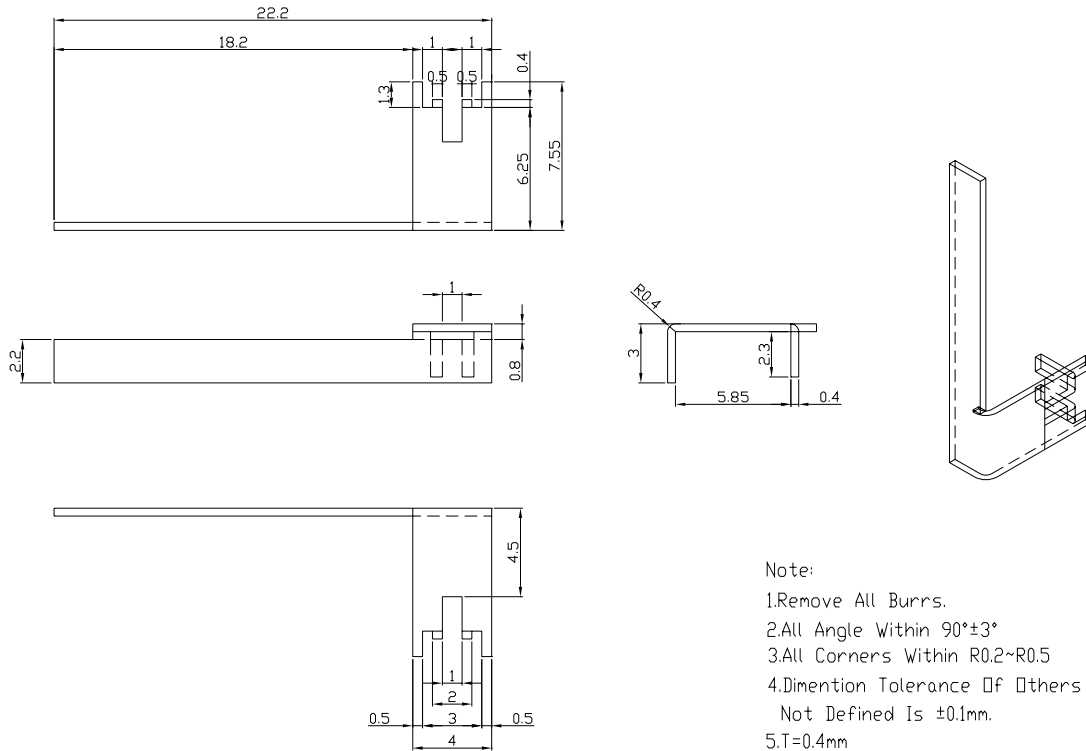
No	Parameter	Specification
1	Working Frequency	2400MHz~2500MHz
2	Bandwidth	2450±50MHz
3	Dimension	22.2x3.0x7.55 mm
4	VSWR	2.0 max
5	Peak Gain	1.5 dBi typ
6	Polarization	Linear
7	Impedance	50 Ohm
8	Operating Temperature	-40~105℃



9	Termination	Cu (Environmentally-Friendly Pb Free)
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* Actual value will depend on customer ground plane size

4.0 Shape and Dimension



Note:

- 1.Remove All Burrs.
- 2.All Angle Within $90^{\circ} \pm 3^{\circ}$
- 3.All Corners Within R0.2~R0.5
- 4.Dimension Tolerance of Others That Is Not Defined Is $\pm 0.1\text{mm}$.
- 5.T=0.4mm