

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 Cirocomm'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



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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°C |



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|---|-------------|--|
| 9 | Termination | Cu (Environmentally-Friendly Pb Free) |
|---|-------------|--|

* Actual value will depend on customer ground plane size

4.0 Shape and Dimension

