

2400-2500/ 5150-5825 MHz, 4.35/3.24 dBi, Stamped  
Metal AP/Router Embedded Antenna

## Antennas Technical Data Sheet

**PESMA1012**

### Features

- High Efficiency
- Isotropic radiation patterns
- Linear polarization
- Ultra-Compact design
- Low loss material - Nickel-Plated brass
- Extended operating temperatures
- Case mounting or on board mount
- Dual band frequency stabilization
- Single piece for easy buy

### Applications

- IoT, M2M, Telemetry
- Wireless Remote Control
- Personal Area Networks(PAN)
- Industrial/Commercial Equipment
- 2.4/5 GHz - Wi-Fi/BT/BLE/ZigBee/ISM applications
- IEEE802.11a/b/g/n/ac embedded applications
- Remote Technology / Monitoring
- Consumer Tracking
- Smart Home / Wearables / Devices
- Agriculture, healthcare, digital signage

### Description

Linear polarized antenna PESMA1012 from Pasternack is part of our extensive in-stock omni directional antennas that ship the same day from our ISO 9001:2015 certified facility. The stamped metal antenna has a maximum frequency of 5825 MHz and a minimum frequency of 2400 MHz. This stamped metal antenna has a maximum input VSWR of 2:1.

This stamped metal antenna has an overall length of 1.45 inches and a width of 0.06 inches. Pasternack's PESMA1012 is a dual band antenna operating from 2400 to 2500 MHz with 4.35 dBi gain and 5150 to 5825 MHz with 3.24 dBi gain. Our high-quality omni directional antenna has an impedance of 50 Ohms.

Pasternack's experts are on hand to assist you with any inquiries. Order this PESMA1012 stamped metal antenna 7 days a week, 24 hours a day, using our on-line ordering system with no MOQs (minimum order quantity) and same-day shipping. Our knowledgeable sales team and ability in the global availability market allow us to lead the industry in supplying RF products like these omni directional antennas.

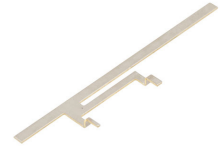
### Configuration

|                   |                  |
|-------------------|------------------|
| Design            | Stamped Metal    |
| Band Type         | Dual             |
| Radiation Pattern | Omni Directional |
| Polarization      | Linear           |

### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 2,400   |         | 5,825   | MHz   |
| Input VSWR      |         |         | 2:1     |       |
| Impedance       |         | 50      |         | Ohms  |
| Gain            | 3.24    |         | 4.35    | dBi   |
| Input Power     |         |         | 1       | Watt  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2400-2500/ 5150-5825 MHz, 4.35/3.24 dBi, Stamped Metal AP/Router Embedded Antenna PESMA1012](#)



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### Specifications by Band

| Description | Band 1     | Band 2        | Band 3 | Band 4 | Band 5 | Units |
|-------------|------------|---------------|--------|--------|--------|-------|
| Range       | 2.4 to 2.5 | 5.15 to 5.825 |        |        |        | GHz   |
| Gain        | 4.35       | 3.24          |        |        |        | dBi   |

### Mechanical Specifications

#### Size

|                |                    |
|----------------|--------------------|
| Overall Length | 1.45 in [36.83 mm] |
| Width          | 0.06 in [1.52 mm]  |
| Height         | 0.29 in [7.37 mm]  |

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

#### Notes:

2400-2500/ 5150-5825 MHz, 4.35/3.24 dBi, Stamped Metal AP/Router Embedded Antenna from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/3.24-dual-band-stamped-metal-antenna-2400-5825-mhz-4694r-br-connector-pes-ma1012-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PESMA1012 CAD Drawing

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