

## Portable Dual Band Antenna Operates From 2.4 GHz to 5.8 GHz With a Nominal 2 dBi Gain Reverse Polarity - TNC Male Input Connector

### PE51088



#### Features

- Vertical Polarized
- Straight Rubberduck / External Dipole
- 2.4 to 2.5 / 4.9 to 5.825 GHz
- 2 dBi gain
- RP-TNC Male Connector
- Gray

#### Applications

- 2.4 GHz Wi-Fi
- Industrial IoT
- Zigbee, Bluetooth
- 5 GHz WLAN / Wi-Fi Networks
- Public Safety

#### Description

The PE51088 Mini Rugged Dual Band Antenna provides excellent performance in multiple wireless applications. Its small size and rugged construction is perfect for both indoor and portable wireless systems.

#### Configuration

Design	Portable
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	TNC Male Reverse Polarity

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,800	MHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Gain	2			

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	2.4 to 2.5	4.9 to 5.1	5.1 to 5.8			GHz
VSWR Max	2:1	3:1	2.5:1			

#### Mechanical Specifications

Radome Material	ABS
<b>Size</b>	
Length	3.57 in [90.68 mm]
Width	0.57 in [14.48 mm]
Height	0.57 in [14.48 mm]
Weight	0.053 lbs [24.04 g]

Portable Dual Band Antenna Operates From  
2.4 GHz to 5.8 GHz With a Nominal 2 dBi Gain  
Reverse Polarity - TNC Male Input Connector

## PE51088



---

### Environmental Specifications

#### Temperature

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

### Plotted and Other Data

Notes:

### Typical Radiation Pattern

### Appendix

**Electrical Downtilt:** Angle in the antenna's elevation pattern in which the maximum gain occurs.

**Gain:** Antenna's average gain.

**Front to Back Ratio @ 180°±30°:** Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

**Cross-polarization Ratio (dB):** Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Portable Dual Band Antenna Operates From 2.4 GHz to 5.8 GHz With a Nominal 2 dBi Gain Reverse Polarity - TNC Male Input Connector 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Portable Dual Band Antenna Operates From 2.4 GHz to 5.8 GHz With a Nominal 2 dBi Gain Reverse Polarity - TNC Male Input Connector PE51088](#)

URL: <https://www.pasternack.com/mini-omni-grey-radome-reverse-polarity-tnc-male-2-3-dbi-pe51088.html>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE51088 CAD Drawing

Portable Dual Band Antenna Operates From 2.4 GHz to 5.8 GHz With a Nominal 2 dBi Gain Reverse Polarity - TNC Male Input Connector

