



0 dBi Tunable Telescopic Portable Antenna  
118-174 MHz BNC Connector

Antennas Technical Data Sheet

PE51TW1000

**Features**

- Telescopic radiator
- Flexible support mast for impact resistance
- UV Stabilized
- Field Tunable

**Applications**

- Portable hand-held instrumentation
- Bench test equipment
- Fixed wireless monitoring equipment

**Description**

This telescopic, field tunable VHF antenna is ideally suited for portable and fixed applications.

**Configuration**

|                              |                  |
|------------------------------|------------------|
| Design                       | Portable         |
| Application Band             | VHF              |
| Band Type                    | Single           |
| Radiation Pattern            | Omni Directional |
| Polarization                 | Vertical         |
| Ground Plane                 | Dependent        |
| Connector Type               | BNC Plug         |
| Housing Material and Plating | Polyolefin       |

**Electrical Specifications**

| Description                           | Minimum | Typical | Maximum | Units |
|---------------------------------------|---------|---------|---------|-------|
| Frequency Range (field tunable range) | 118     |         | 174     | MHz   |
| Input VSWR                            |         | 2:1     |         |       |
| Impedance                             |         | 50      |         | Ohms  |
| Gain                                  |         | 0       |         | dBi   |
| Input Power                           |         |         | 10      | Watts |

**Mechanical Specifications**

|                   |                     |
|-------------------|---------------------|
| Housing Material  | Polyolefin          |
| Radiator Material | Brass               |
| Radiator Finish   | Black Chrome        |
| <b>Size</b>       |                     |
| Overall Length    | 8.43 in [214.12 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0 dBi Tunable Telescopic Portable Antenna 118-174 MHz BNC Connector PE51TW1000](#)



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**Connectors**

| Description               | Connector 1   | Connector 2 | Connector 3 |
|---------------------------|---------------|-------------|-------------|
| Body Material and Plating | Brass, Nickel |             |             |

**Environmental Specifications**

**Temperature**

Operating Range

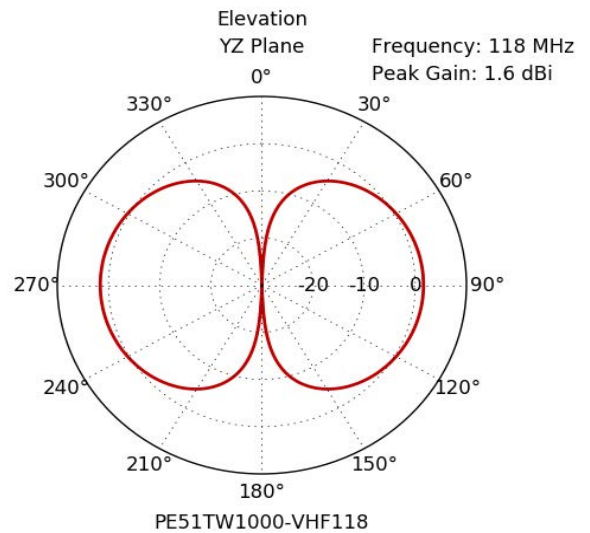
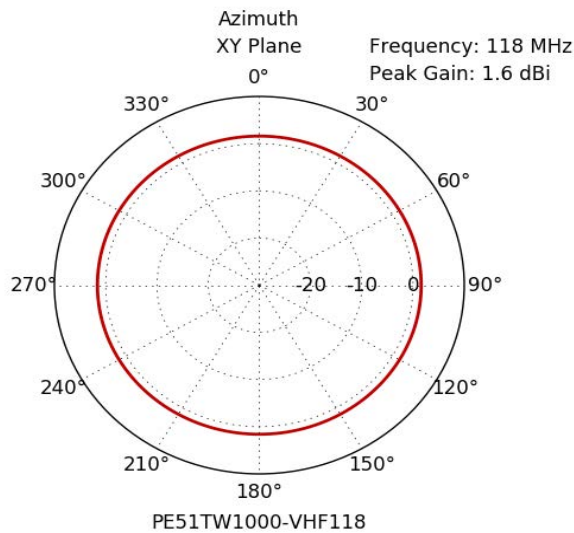
-20 to +65 deg C

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

**Plotted and Other Data**

Notes:

**Typical Radiation Pattern**



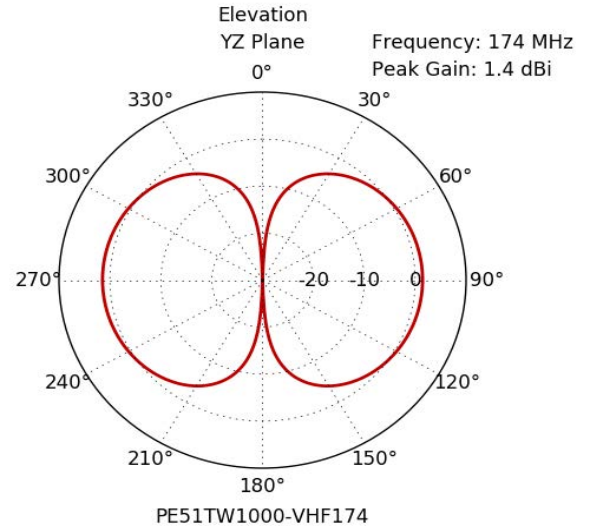
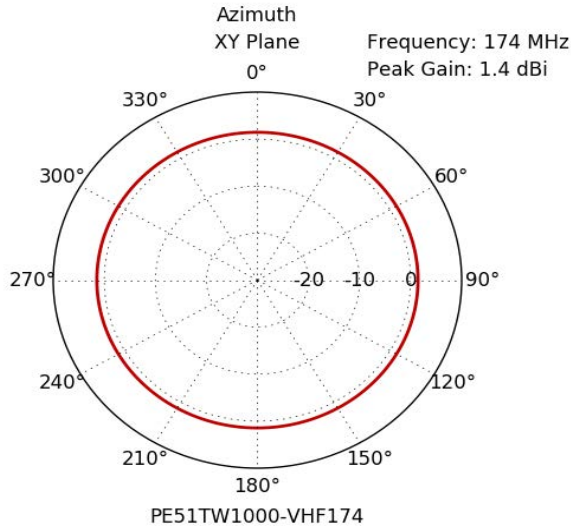
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0 dBi Tunable Telescopic Portable Antenna 118-174 MHz BNC Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of 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: [0 dBi Tunable Telescopic Portable Antenna 118-174 MHz BNC Connector PE51TW1000](#)

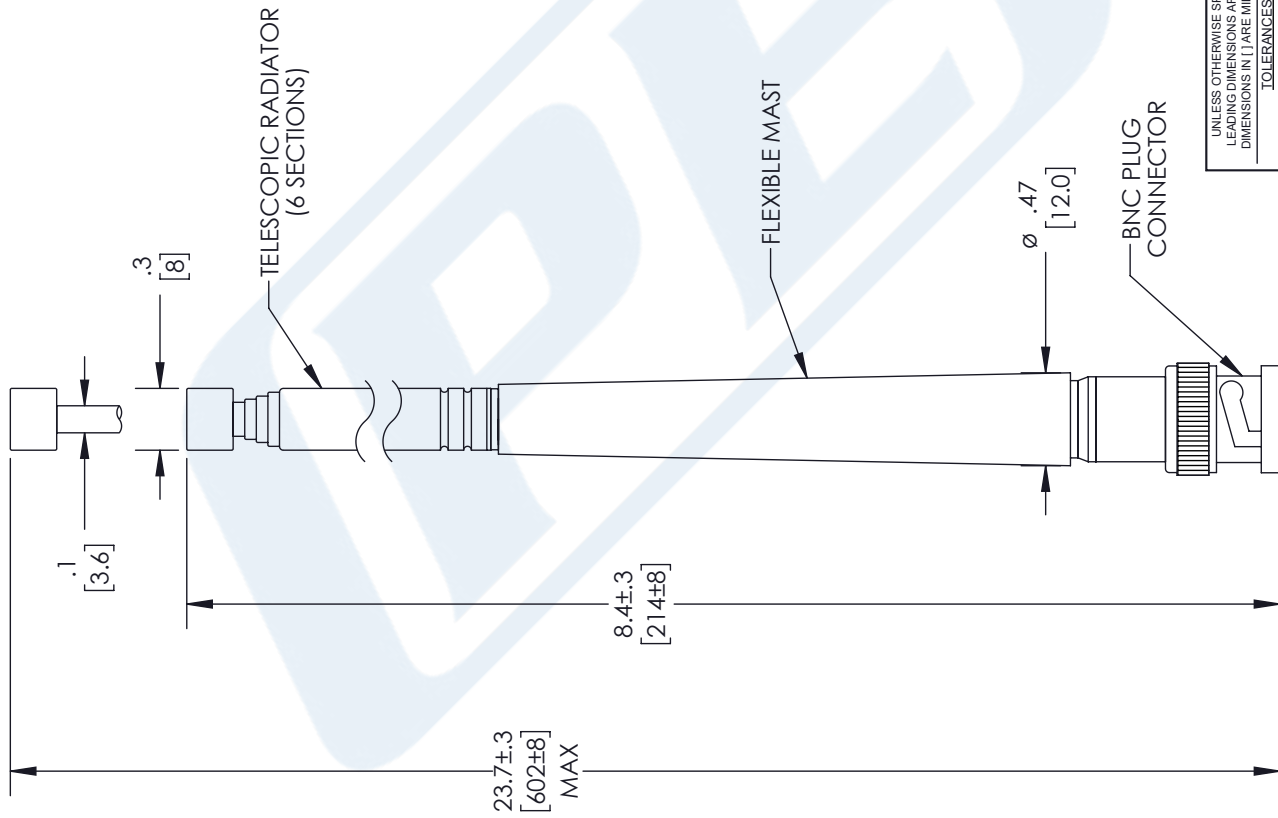
URL: <https://www.pasternack.com/single-antenna-118-174-mhz-0-dbi-gain-bnc-pe51tw1000-p.aspx>

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# PE51TW1000 CAD Drawing

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| REVISIONS |                 |
|-----------|-----------------|
| A         | INITIAL RELEASE |
|           | 08/14/19        |
|           | MMILLER         |



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

|           |        |           |             |
|-----------|--------|-----------|-------------|
| X±.2      | [5.08] | FRACTIONS |             |
| .XX±.01   | [.25]  |           | +1/32       |
| .XXX±.005 | [.13]  |           | ANGLES ± 1° |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

**(PE) PASTERNAK**  
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SHEET 1 OF 1  
SCALE N/A

SIZE A  
CAGE NUMBER 53919  
DRAWN BY BPUCHASKI  
PART NUMBER PE51TW1000  
REV A

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