



## Low Loss 11 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts

### TECHNICAL DATA SHEET

**PE-T2020**

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Pasternack's Line of High Power Wideband Tappers have been designed to maintain a Split Ratio across all frequencies between 380MHz and 6GHz. There is minimal Insertion Loss, VSWR, and Low PIM. Mechanically the parts have no solder joints inside the Aluminum Casing and are IP65 / IP67 rated allowing for placement in rugged environments. This setup along with select bands optimization makes them ideal for Mobile Networks Infrastructure.

- Split Ratios Ranging from 1:3 to 1:1000
- Power Ratings up to 300 Watts
- Low PIM (150dBc) Low VSWR (1.15)
- Rugged Designs available with optional mounting brackets

#### Configuration

|                              |                     |
|------------------------------|---------------------|
| Design                       | Low Loss Tapper     |
| Frequency Range, GHz         | 0.38 to 6           |
| Input                        | 7/16 DIN Female     |
| Output                       | 7/16 DIN Female     |
| Sample Port                  | 7/16 DIN Female     |
| Number of Output Ports       | 2                   |
| Housing Material and Plating | Passivated Aluminum |

#### Electrical Specifications

|                                           |              |
|-------------------------------------------|--------------|
| Number of Bands                           | 4            |
| Impedance, Ohms                           | 50           |
| Maximum Insertion Loss, dB *              | 0.53         |
| Maximum Input Power, Watts                | 300          |
| Maximum Input VSWR                        | 1.25:1       |
| Peak Input Power, KWatts                  | 3            |
| Passive Intermodulation (2 x 43 dBm), dBc | 150          |
| <b>Band 1</b>                             |              |
| Frequency, GHz                            | 0.38 to 1.55 |
| VSWR                                      | 1.15         |
| <b>Band 2</b>                             |              |
| Frequency, GHz                            | 1.65 to 2.7  |
| VSWR                                      | 1.15:1       |
| <b>Band 3</b>                             |              |
| Frequency, GHz                            | 3.4 to 5.4   |
| Coupling Tolerance, dB                    | 1            |
| VSWR                                      | 1.25:1       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss 11 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts PE-T2020](#)

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.



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### Band 4

|                        |        |
|------------------------|--------|
| Range, GHz             | 5 to 6 |
| Coupling Tolerance, dB | 2      |
| VSWR                   | 1.25:1 |

### Mechanical Specifications

#### Size

|                 |               |
|-----------------|---------------|
| Length, in [mm] | 5.71 [145.03] |
| Width, in [mm]  | 1.5 [38.1]    |
| Height, in [mm] | 2.34 [59.44]  |
| Weight, lbs [g] | 0.75 [340.19] |
| Humidity        | IP65          |

#### Connector 1

|                                      |               |
|--------------------------------------|---------------|
| Contact Material and Plating         | Brass, Silver |
| Outer Conductor Material and Plating | Brass, Silver |
| Body Material and Plating            | Brass, Silver |

#### Connector 2

|                                      |               |
|--------------------------------------|---------------|
| Contact Material and Plating         | Brass, Silver |
| Outer Conductor Material and Plating | Brass, Silver |
| Body Material and Plating            | Brass, Silver |

#### Connector 3

|                                      |               |
|--------------------------------------|---------------|
| Contact Material and Plating         | Brass, Silver |
| Outer Conductor Material and Plating | Brass, Silver |
| Body Material and Plating            | Brass, Silver |

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

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**Plotted and Other Data**

- \* Notes:
- Values at 25 °C, sea level
  - Main line VSWR usable to DC
  - Coupling Port usable to 148 MHz or less with acceptable roll-off.
  - Insertion Loss = Dissipative Loss + Coupling Loss
  - Resonant Free in listed operating bands, Resonance may occur outside specified operating bands

Low Loss 11 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

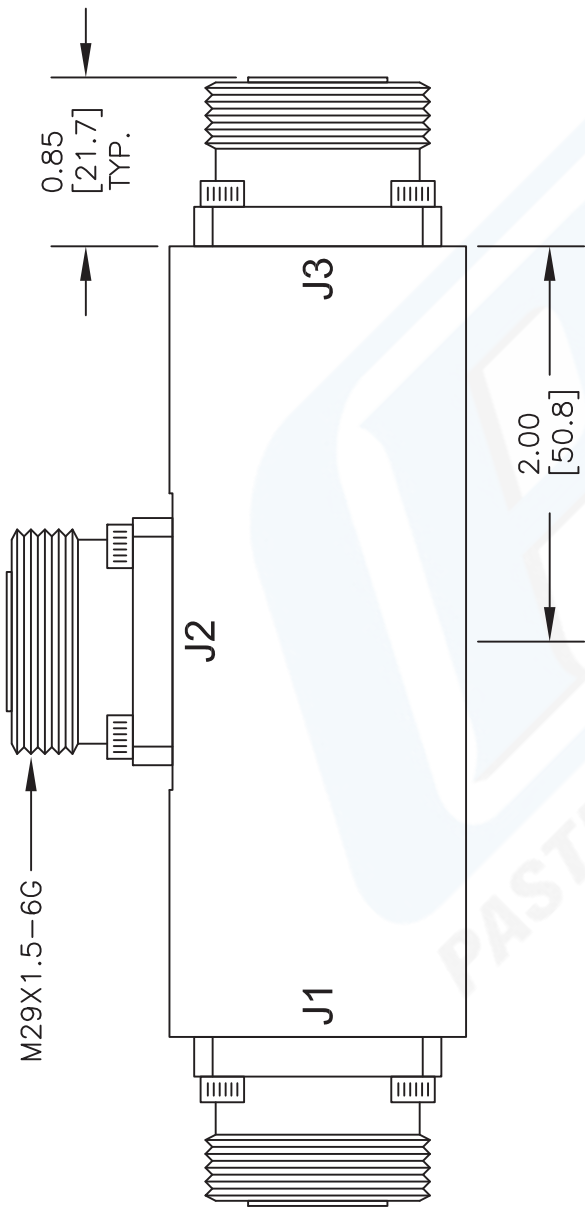
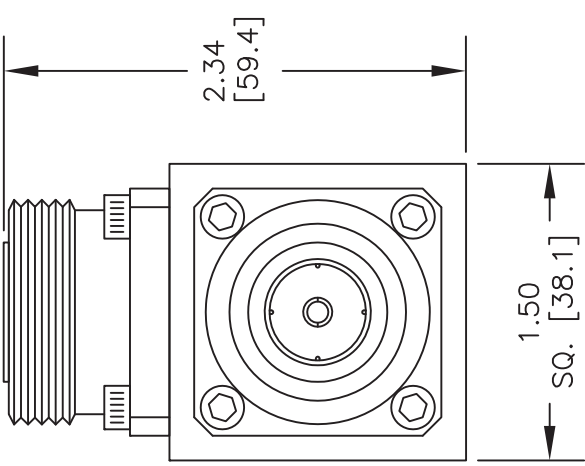
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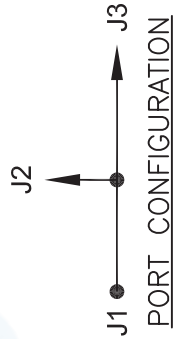
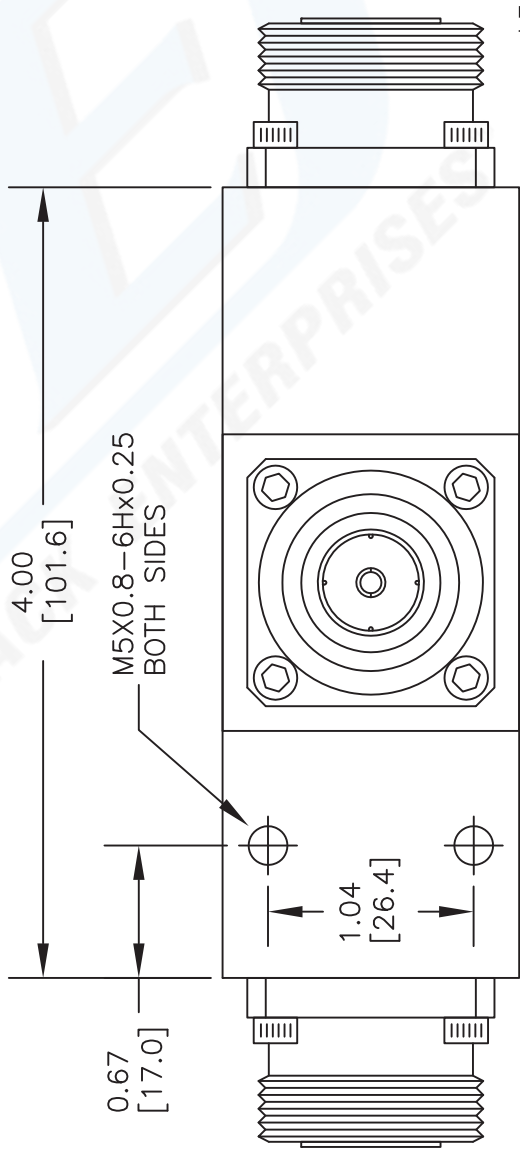
PE-T2020 CAD Drawing

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7/16 DIN FEMALE OUTPUT

7/16 DIN FEMALE INPUT



\* FOR OPTIONAL MOUNTING BRACKET, SEE PE1012.

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE

PE-T2020

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 090913

**PE PASTERNAK®**

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com