



## Low Loss 8 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts

### TECHNICAL DATA SHEET

PE-T2003

#### Low Loss 8 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts

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

Split Ratio	1:5.3
Number of Bands	4
Impedance, Ohms	50
Maximum Insertion Loss, dB *	0.92
Maximum Input Power, Watts	300
Maximum Input VSWR	1.3:1
Peak Input Power, KWatts	3
Passive Intermodulation (2 x 43 dBm), dBc	150

##### Band 1

Frequency, GHz	0.38 to 1.55
Coupling Tolerance, dB	0.5
VSWR	1.25

##### Band 2

Frequency, GHz	1.65 to 2.7
Coupling Tolerance, dB	0.5
VSWR	1.3:1

##### Band 3

Frequency, GHz	3.4 to 4.5
Coupling Tolerance, dB	1
VSWR	1.3:1

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss 8 dB 7/16 DIN Unequal Tapper Optimized For Mobile Networks From 380 MHz to 6 GHz Rated To 300 Watts PE-T2003](#)

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	1.5
VSWR	1.3:1

**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 8 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.

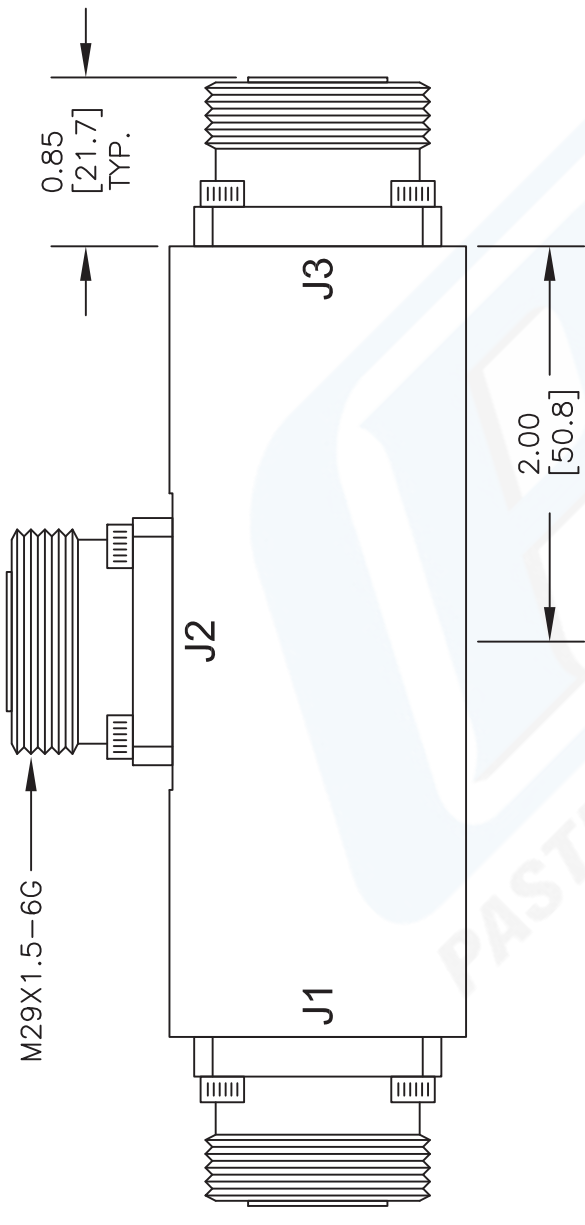
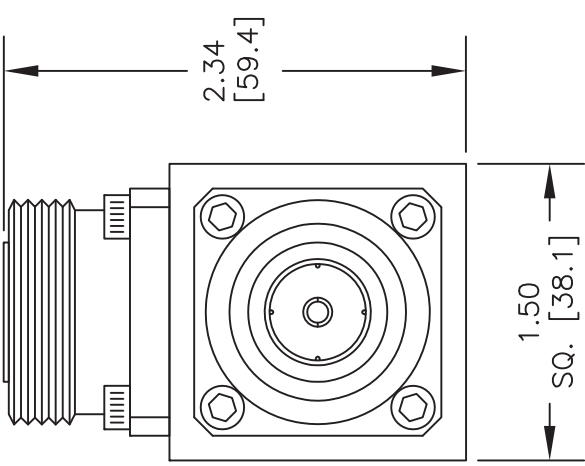
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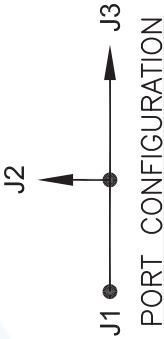
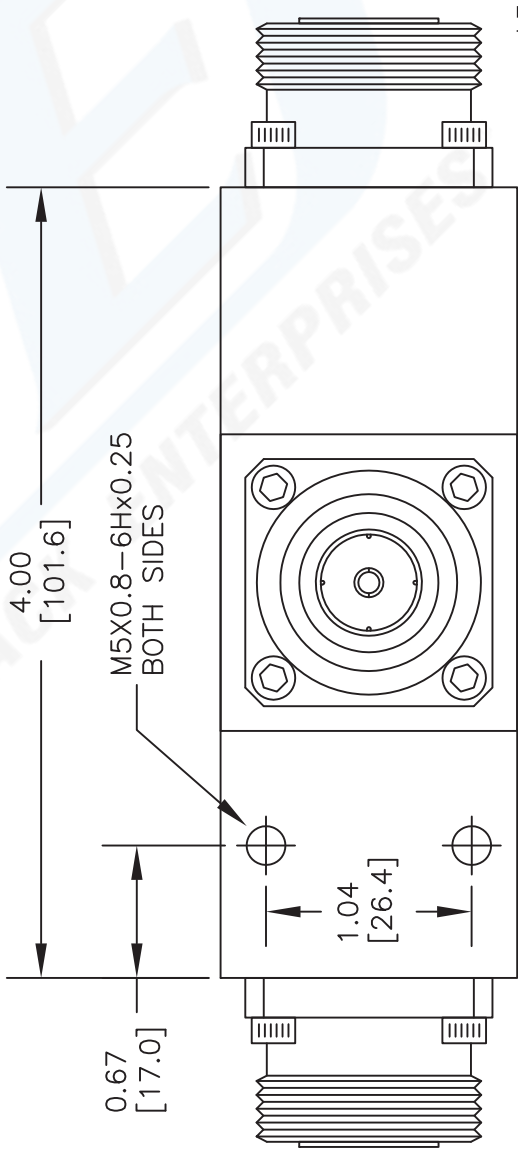
PE-T2003 CAD Drawing

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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-T2003

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 090913

**PE PASTERNAK®**  
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