



## 50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 12 dB Gain And 10 dB P1db

### TECHNICAL DATA SHEET

PE1514

#### 50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 12 dB Gain And 10 dB P1db

##### Configuration

Design	Broadband Amplifier
RF Input Connector	SMA Female
RF Input Connector Impedance	50 Ohms
RF Output Connector	SMA Female
DC Bias Connector	Solder Pin

##### Electrical Specifications

Frequency Range, GHz	0.01 to 3
Typical Gain, dB	12
Maximum Noise Figure, dB	5.5
Output at 1 dB Compression Point, dBm	10
Operating DC Voltage, Volts	15
Maximum DC Current, mA	40

##### Frequency 1

Frequency, GHz	0.01 to 2
Input Return Loss, dB	15
Output Return Loss, dB	15
Output at 1 dB Compression Point, dBm	10
Noise Figure, dB	5.5
Gain, dB	12

##### Frequency 2

Frequency, GHz	2 to 3
Return Loss, dB	11
Output Return Loss, dB	10
Output at 1 dB Compression Point, dBm	9
Noise Figure, dB	7
Gain, dB	10

##### Mechanical Specifications

###### Size

Length, in [mm]	2.18 [55.37]
Width/Dia., in [mm]	1.18 [29.97]
Height, in [mm]	0.49 [12.45]

###### RF Input Connector

Type	SMA Female
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 12 dB Gain And 10 dB P1db PE1514](#)

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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**RF Output Connector**

Type

SMA Female

**DC Bias Connector**

Type

Solder Pin

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

RoHS Compliant

Yes

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 12 dB Gain And 10 dB P1db 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.

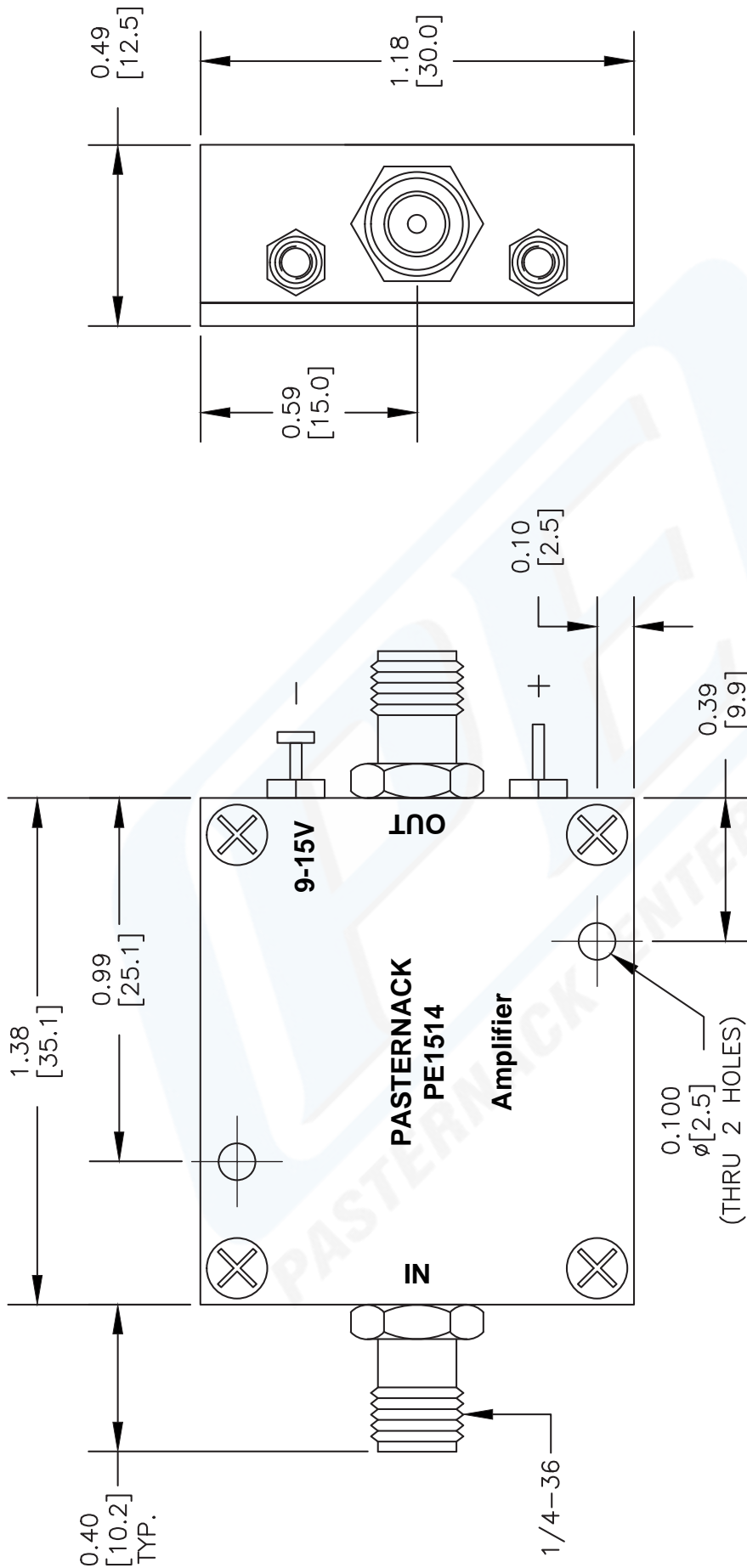
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 12 dB Gain And 10 dB P1db PE1514](http://www.pasternack.com/50-ohm-sma-amplifier-10-mhz-3000-mhz-12-db-gain-pe1514-p.aspx)

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# PE1514 CAD Drawing

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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

**PE1514**

FSCM NO. 53919

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