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50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 20 dB Gain And 13 dB P1db

TECHNICAL DATA SHEET PE1513

50 Ohm SMA Amplifier Operating From 10 MHz to 3 GHz With 20 dB Gain And 13 dB P1db

Configuration

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

Electrical Specifications

Frequency Range, GHz	0.01 to 3
Typical Gain, dB	20
Output at 1 dB Compression Point, dBm	13
Maximum RF Input Power, dBm	13
Operating DC Voltage, Volts	9 to 15
Maximum DC Current, mA	50

Frequency 1

Frequency, MHz	10 to 1,000
Input Return Loss, dB	15
Output Return Loss, dB	-12
Output at 1 dB Compression Point, dBm	13
Noise Figure, dB	2.7
Gain, dB	20

Frequency 2

Frequency, GHz	1 to 2
Return Loss, dB	15
Output Return Loss, dB	-13
Output at 1 dB Compression Point, dBm	11
Noise Figure, dB	3.5
Gain, dB	17

Frequency 3

Frequency, GHz	2 to 3
Return Loss, dB	15
Output Return Loss, dB	-10
Output at 1 dB Compression Point, dBm	9
Noise Figure, dB	5
Gain, dB	14

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 20 dB Gain And 13 dB P1db PE1513

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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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

RF Output Connector

Type	SMA Female

DC Bias Connector

Type	Solder Pin

Compliance Certifications (visit 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 20 dB Gain And 13 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.

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URL: http://www.pasternack.com/50-ohm-sma-amplifier-10-mhz-3000-mhz-20-db-gain-pe1513-p.aspx

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PE1513 CAD Drawing

50 Ohm SMA Amplifier Operating From 10 MHz to
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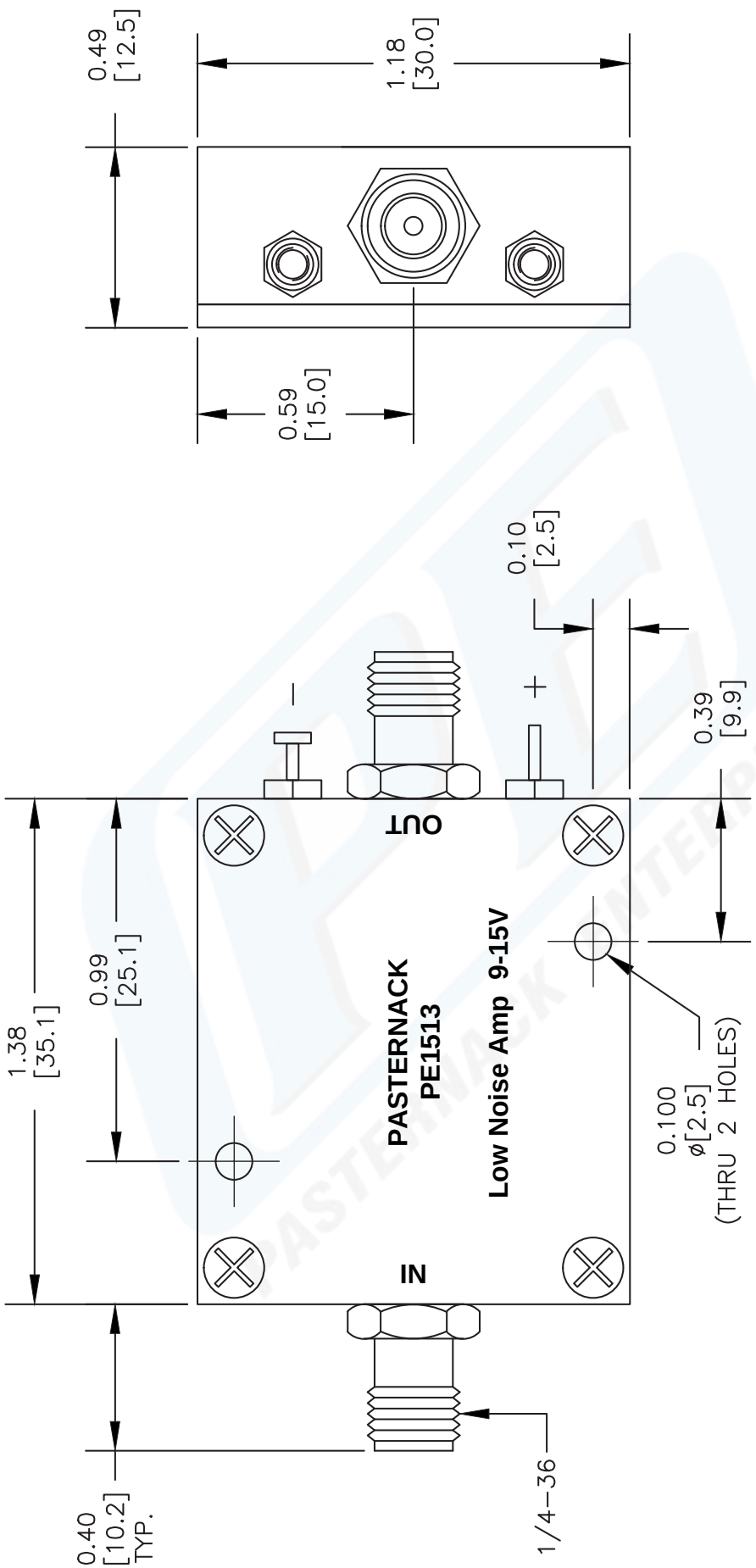

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	CAD FILE	SCALE	SIZE	
PE1513	010411	N/A	A	127

Rev. A	FSCM NO. 53919

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