PASTERNACK®
THE ENGINEER'S RF SOURCE



60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3502

The PE15A3502 is a Portable Amplifier that operates over the 20.0 to 40.0 GHz Frequency Range. The amplifier has a typical gain of 60 dB and a P1dB of +10 dBm minimum. The amplifier has an On/Off switch that is located on the Front Panel. Input/Output Connectors are 2.92mm. The amplifier comes with a fuse and a 6 foot power cord.

Features

- 20.0 to 40.0 GHz Frequency Range
- Gain of 60 dB typ
- On/Off Switch on Front Panel
- Gain Flatness of ±3.0 dB max
- P1dB of +10 dBm
- Input/Output Connectors 2.92mm Female.

Applications

- Test and Measurement
- General Purpose Broadband High Gain Amplifier
- Lab Test Amplifier
- Portable Broadband Amplifier

Electrical Specifications (TA = +25°C)

Description	Minimum	Typical	Maximum	Units
Frequency Range	20		40	GHz
Gain		60		dB
Gain Flatness			±3	dB
Output at 1 dB Compression Point	+10			dBm
Noise Figure (Only Measured to 26.5 GHz)		5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating AC Voltage (Supplied with a fuse and 6 foot power cord)		115, 60 Hz		VAC
Operating Temperature Range (OTR)	-40		+85	°C

Mechanical Specifications

Size	
Length	4.92 in [124.97 mm]
Width	4.92 in [124.97 mm]
Height	2.26 in [57.4 mm]
Weight	2.78 lbs [1.26 Kg]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm PE15A3502

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

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3502

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +100 deg C
Humidity	MIL-STD-202F, Method 103B COND. B
Shock	MIL-STD-202F, Method 213B COND. B
Vibration	MIL-STD-202F, Method 204D COND. B
Altitude	MIL-STD-202F, Method 105C COND. B
Temperature Cycling	MIL-STD-202F, Method 107D COND. A



Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant	
REACH Compliant	12/17/2014

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm PE15A3502

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

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

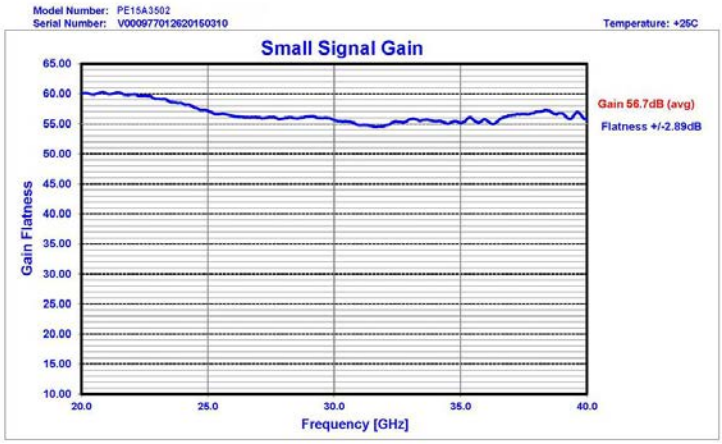
PASTERNACK®
THE ENGINEER'S RF SOURCE

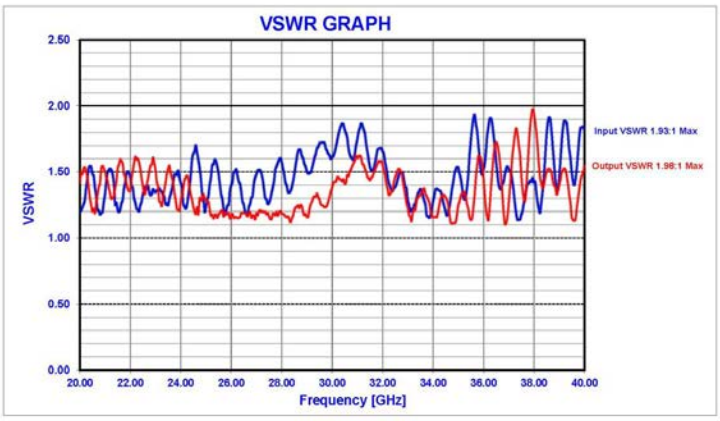


60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3502

Typical Performance Data





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm PE15A3502

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

ISO 9001 : 2008 Registered

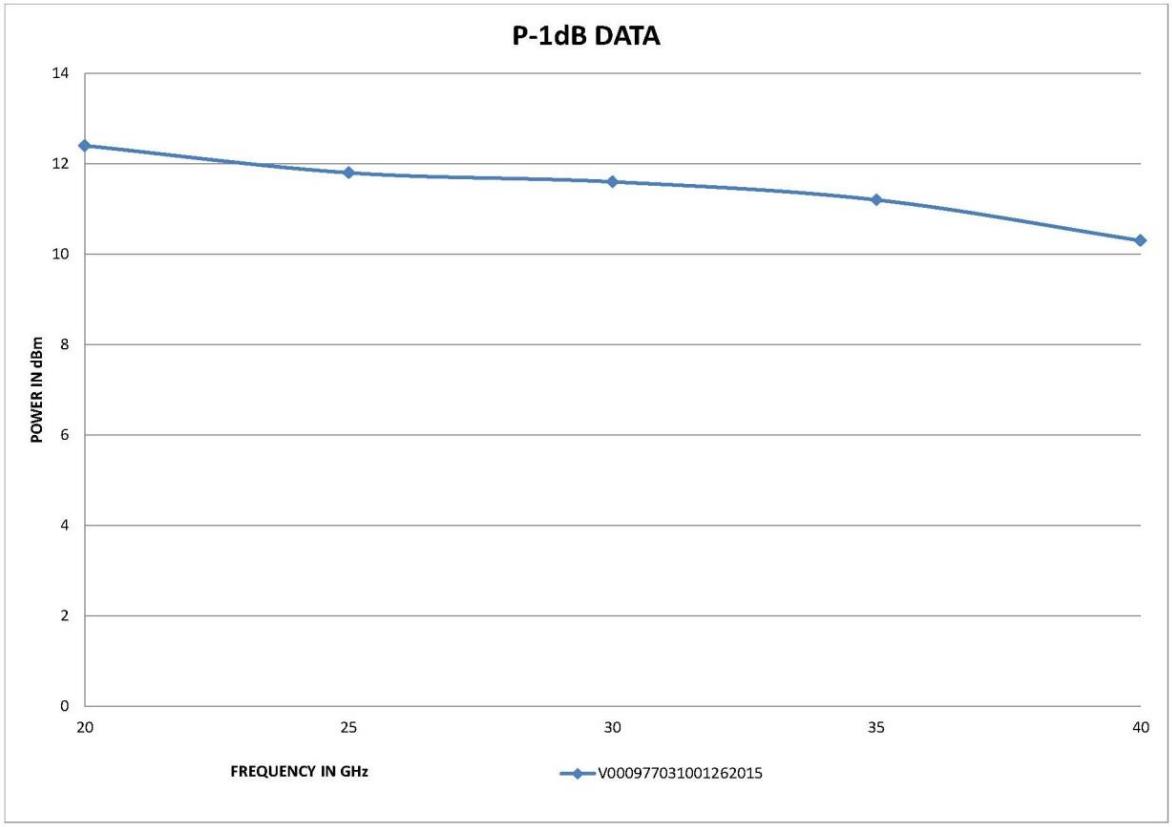
© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3502



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm PE15A3502

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

ISO 9001 : 2008 Registered

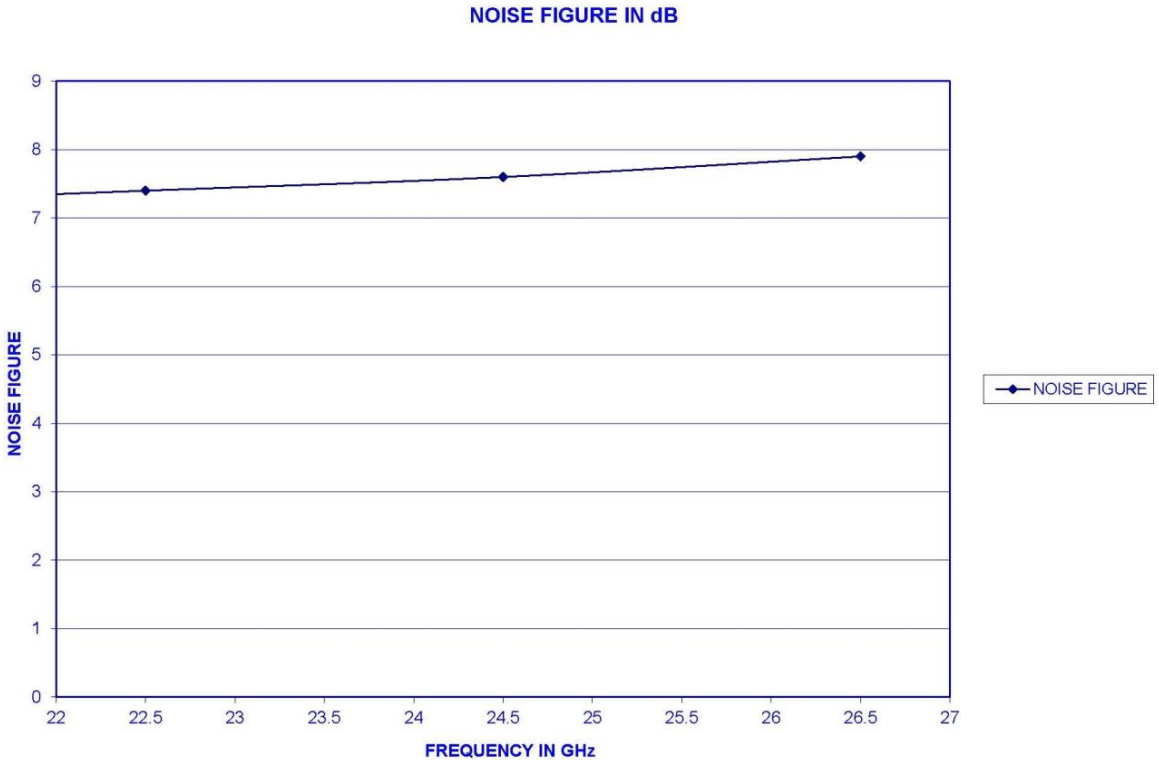
© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm

TECHNICAL DATA SHEET PE15A3502



60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave 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: 60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm PE15A3502

URL: http://www.pasternack.com/60-db-gain-40-ghz-broadband-high-gain-amplifier-5-db-2.92mm-pe15a3502-p.aspx

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

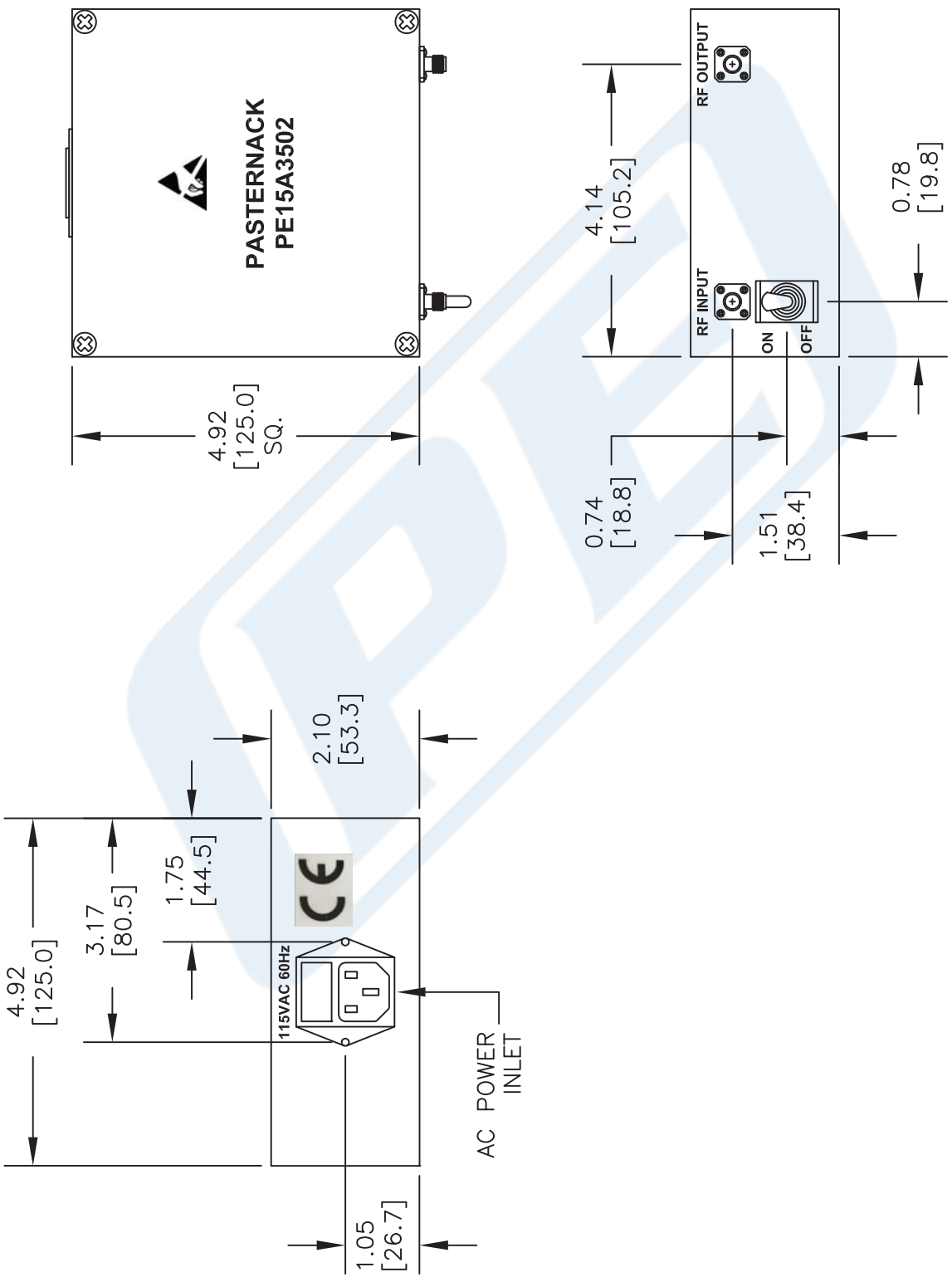
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2016 Pasternack Enterprises All Rights Reserved

PE15A3502 CAD Drawing

60 dB Gain, 10 dBm P1dB, 20 GHz to 40 GHz, Broadband
High Gain Amplifier, Bench-Top, 5 dB NF, 2.92mm



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].

CAD FILE	111115	SCALE N/A	SIZE A	2233

DWG TITLE: **PE15A3502**

FSCM NO. 53919

PASTERNACK
THE ENGINEER'S RF SOURCE
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

© 2016 Pasternack Enterprises All Rights Reserved