



PASTERNAK ENTERPRISES, INC.

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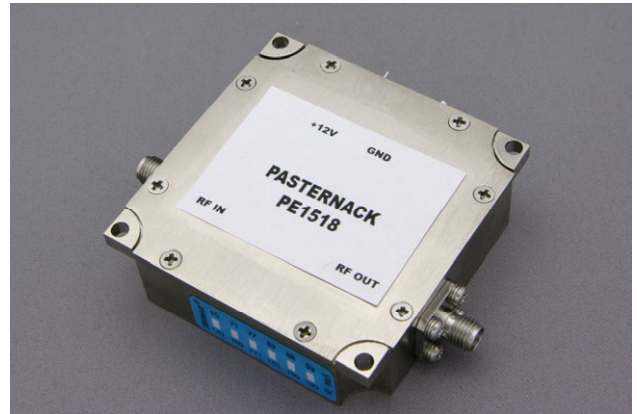
PE1518 Low Noise Amplifier 50 to 2000 MHz

Product Features

- 50 – 2000 MHz frequency range
- 3.5 dB Noise Figure
- 21 db Typical Gain
- 1.0 dB Typical Gain Flatness
- 100mA at +12VDC

Description

The PE1518 low noise amplifier is designed for applications within the 50 to 2000 MHz frequency range. High efficiency operation is achieved by using low-noise GaAs PHEMT devices. This amplifier is a cost effective solution that offers typical performance of 21 dB gain, 1.0 dB gain flatness and a 3.5 dB noise figure.



Electrical Specifications ⁽¹⁾

Parameter	Units	Value	Description
Impedance	Ohms	50	
Frequency	MHz	50 to 2000	
Small Signal Gain	dB	21	Typical
Gain Flatness	dB	1.5	Maximum
Pout at 1dB Gain Compression (P1dB)	dBm	12	Typical
Noise Figure	dB	3.5	Typical
VSWR, In	-	2:1	Maximum
VSWR, Out	-	2:1	Maximum
Vdc (internal regulator)	Volts	+11 to 15	Typical
Idc	mA	150	Maximum

Mechanical Specifications ⁽¹⁾

Parameter	Units	Value	Description
Operating Temperature	Celsius	-30° to +70°	
Input Connector	-	SMA Female	
Output Connector	-	SMA Female	
Case Style		PMN715	

Ordering Information

Part Number	Description
PE1518	Low Noise Amplifier, 50 to 2000 MHz

(1) Pasternack reserves the right to change specifications or information without notice.
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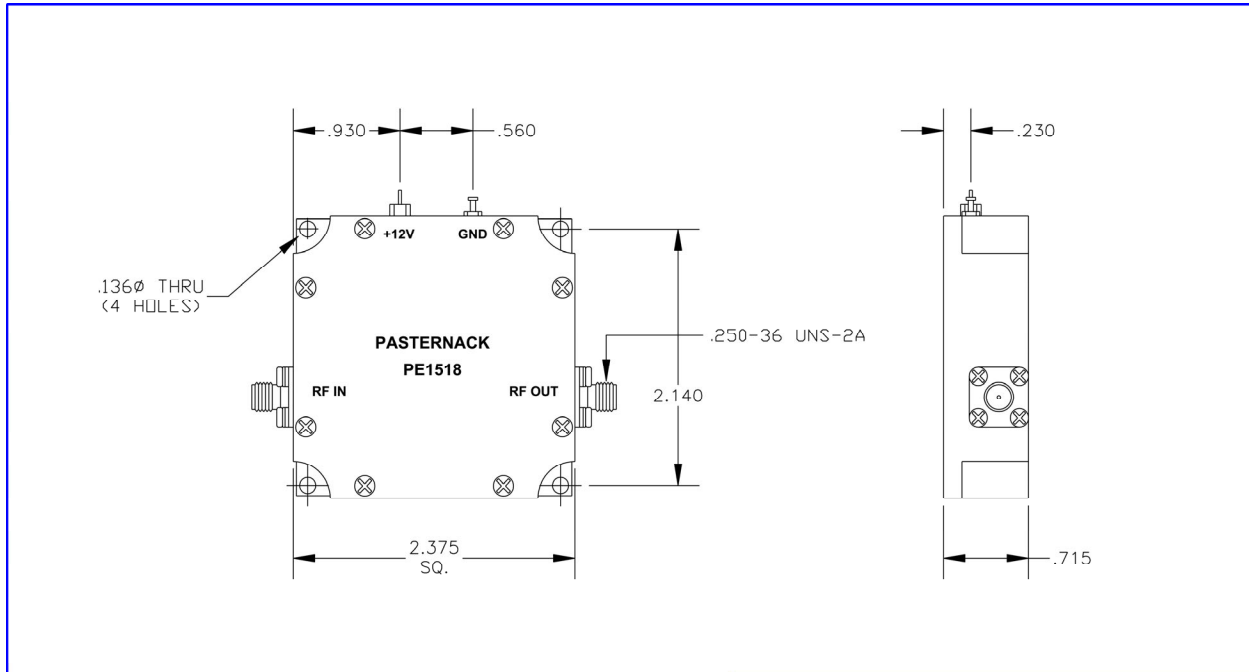


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PE1518 Low Noise Amplifier 50 to 2000 MHz



SPECIFICATIONS

FREQUENCY: .05-2 GHz
 GAIN: 21
 GAIN FLATNESS: 1.5
 P1dB (dBm TYP.): 12
 INPUT VSWR: 2:1
 OUTPUT VSWR: 2:1
 NOISE FIGURE: 3.5
 CURRENT AT +12VDC: 100mA
 OPERATING TEMPERATURE: -30° C TO +70° C

 PASTERNAK ENTERPRISES, INC. P.O. BOX 16759, IRVINE, CA 92623 PHONE (949) 261-1920 FAX (949) 261-7451 WEB ADDRESS: www.pasternack.com E-MAIL ADDRESS: sales@pasternack.com COAXIAL & FIBER OPTICS		DWG TITLE		DES. LOW NOISE AMPLIFIER	
		PE1518			
REV. A	FSCM NO. 53919	CAD FILE 031208	SCALE N/A	SIZE A	147
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.					