



PASTERNAK ENTERPRISES, INC.

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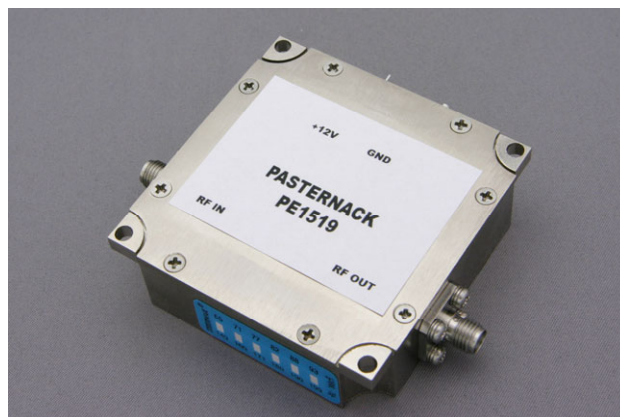
PE1519 Low Noise Amplifier 1 – 4 GHz

Product Features

- 1 – 4 GHz frequency range
- 2.5 dB Noise Figure
- 25 dB Typical Gain
- 1.0 dB Typical Gain Flatness
- 100mA at +12VDC

Description

The PE1519 low noise amplifier is designed for applications within the 2 to 4 GHz 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 25 dB gain, 1.0 dB gain flatness and a 2.5 dB noise figure.



Electrical Specifications ⁽¹⁾

Parameter	Units	Value	Description
Impedance	Ohms	50	
Frequency	GHz	1.0 to 4.0	
Small Signal Gain	dB	25	Typical
Gain Flatness	dB	1	Maximum
Pout at 1dB Gain Compression (P1dB)	dBm	15	Typical
Noise Figure	dB	2.5	Typical
VSWR, In	-	2:1	Maximum
VSWR, Out	-	2:1	Maximum
Vdc (internal regulator)	Volts	+11 to 15	Typical
Idc	mA	120	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
PE1519	Low Noise Amplifier, 1 – 4 GHz

(1) Pasternack reserves the right to change specifications or information without notice.
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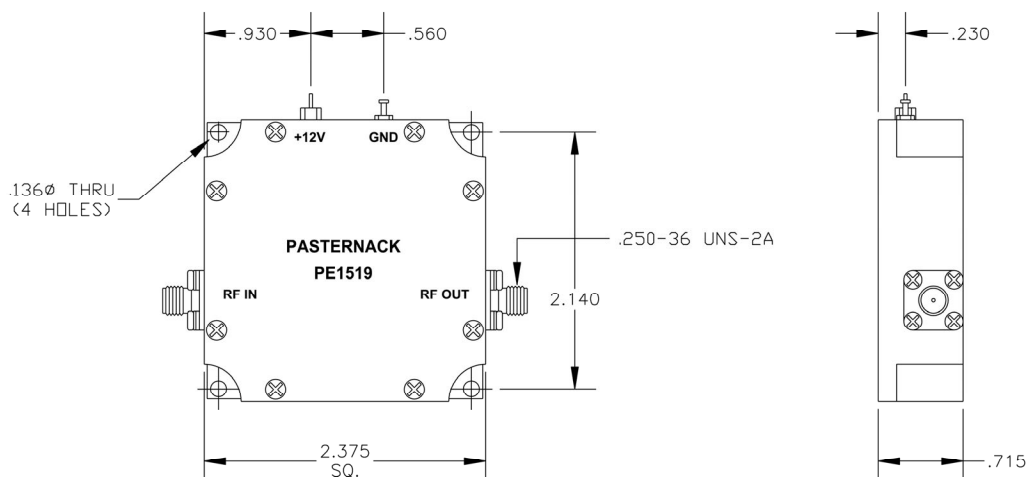
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PE1519

Low Noise Amplifier

1 – 4 GHz



SPECIFICATIONS

FREQUENCY: 1–4 GHz
GAIN: 25
GAIN FLATNESS: 1
P1dB (dBm TYP.): 15
INPUT VSWR: 2:1
OUTPUT VSWR: 2:1
NOISE FIGURE: 2.5
CURRENT AT +12VDC: 100mA
OPERATING TEMPERATURE: -30° C TO +70° C



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COAXIAL & FIBER OPTICS

DWG TITLE		DES. LOW NOISE AMPLIFIER			
PE1519					
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.					