



PASTERNAK ENTERPRISES, INC.

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PE1524 Low Noise Amplifier 2 – 18 GHz

Product Features

- 2 – 18 GHz frequency range
- 3.5 dB Noise Figure
- 21 db Typical Gain
- 1 dB Typical Gain Flatness
- 120mA at +12VDC

Description

The PE1524 low noise amplifier is designed for applications within the 2 to 18 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 21 dB gain, 1 dB gain flatness and a 3.5 dB noise figure.



Electrical Specifications ⁽¹⁾

Parameter	Units	Value	Description
Impedance	Ohms	50	
Frequency	GHz	2.0 to 18.0	
Small Signal Gain	dB	21	Typical
Gain Flatness	dB	1.5	Maximum
Pout at 1dB Gain Compression (P1dB)	dBm	13	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		PMN716	

Ordering Information

Part Number	Description
PE1524	Low Noise Amplifier, 2 – 18 GHz

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

FREQUENCY: 2–18 GHz
 GAIN: 21
 GAIN FLATNESS: 1.5
 P1dB (dBm TYP.): 13
 INPUT VSWR: 2:1
 OUTPUT VSWR: 2:1
 NOISE FIGURE: 3.5
 CURRENT AT +12VDC: 120mA
 OPERATING TEMPERATURE: -30° C TO +70° C

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		COAXIAL & FIBER OPTICS	
DWG TITLE	DES. LOW NOISE AMPLIFIER		
PE1524			
REV. A	FSCM NO. 53919	CAD FILE 031108	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.			