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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 lownoise 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		
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