

ERZ-LNA-3600-4000-29-3.5



#### ERZ-LNA-3600-4000-29-3.5

The ERZ-LNA-3600-4000-29-3.5 is a Low Noise Amplifier providing a gain of 29 dB with a noise figure of 3.5 dB. The compact size and modularity makes it ideal for a wide range of applications.

#### Main Features:

- Frequency Range: 36 to 40 GHz.
- Typical values: Gain 29 dB, NF 3.5 dB
- RF connectors (I/O): 2.92 Female
- Solder filtered pins for DC connection
- Several mounting options
- Gold platted compact aluminum housing
- Hi-reliability and dedicated screening/ environmental tests available under request

## Typical applications:

- Industrial / Laboratory
- Satcom / Telecom
- Space / Aerospace / Military

#### **Performance**

Parameter	Value			Units
	Min	Тур	Max	
Frequency	36	-	40	GHz
Output Power (P1dB)	7	9	-	dBm
Gain	28	29	30	dB
Noise Figure	3.2	3.3	3.5	dB
VSWR input	-	2.0:1	1	-
VSWR output	-	2.0:1	1	-
DC Voltage	5	6	7	V
Power Consumption		0.5		W
Connectors	2.92 Female IN/OUT		-	

Specifications at a case temperature of 25°C



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### **Small Signal Gain**

Figure 1 shows small signal gain measurement as a function of frequency at room temperature (25°C).

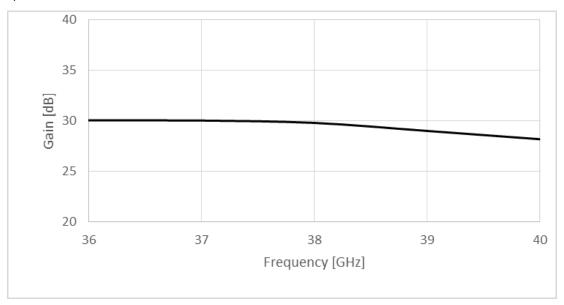


Figure 1: ERZ-LNA-3600-4000-29-3.5 Small Signal Gain

## **Noise Figure**

Figure 2 shows the noise figure measurement as a function of frequency at room temperature (25°C).

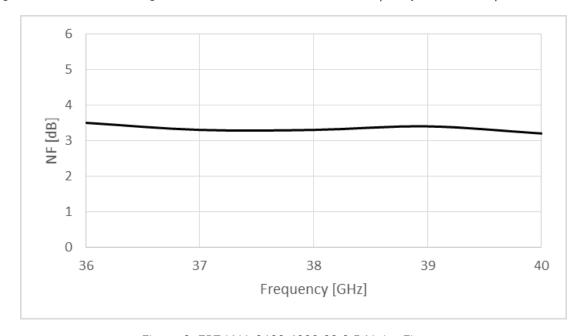


Figure 2: ERZ-LNA-3600-4000-29-3.5 Noise Figure



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#### Measurements Conditions

All measurements provided in this report were performed at the following conditions:

Condition	Value	
Temperature	25°C ± 1°C	
Humidity	70% ± 10%	
DUT Warm up time	30 min	
Test equipment warm up time	1 hour	

## Absolute Maximum Ratings

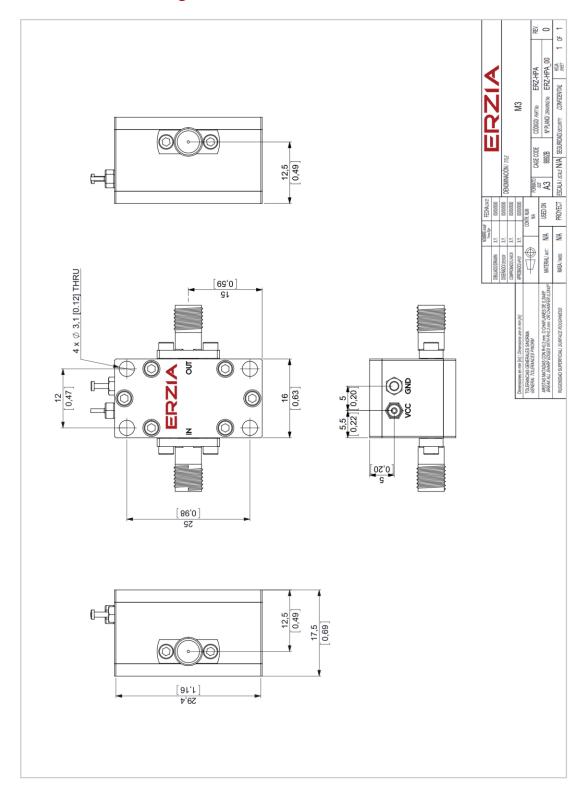
Condition	Value	
DC Voltage	+7 VDC	
Maximum Input Power (CW)	15 dBm	
Operation temperatura (at case)	-35°C to 70°C	
Storage temperature	-45°C to 85°C	

- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.



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## Mechanics and Housing





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### **Documentation and Test Reports**

All modules are at least delivered with: Electrical Test Report, Certificate of Conformance, Certificate of Acceptance and Origin. Optionally, units can be environmentally tested (temperature, vibration...).

### Option (HS): Heat Sink

A heat sink (HS) can be provided to allow the operation of Power Amplifiers. Please note that most power amplifiers need heat sink or appropriate heat dissipation strategy.

### Space / Military Usage

Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

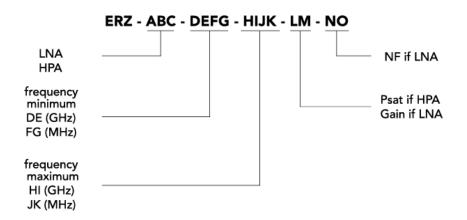
#### **Customization and Extended Performances**

ERZIA can fully design or adapt one of the existing RF amplifiers designs according to your specifications. Please contact us for additional information.

#### Model Number Codification

Tel: +34 942 29 13 42

#### MODEL NUMBER





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