

ERZ-HPA-1500-2700-29



### ERZ-HPA-1500-2700-29

The ERZ-HPA-1500-2700-29 is a K Band Amplifier providing up to 29 dBm and a gain of 16 dB. The compact size and modularity makes it ideal for a wide range of applications.

### Main Features:

• Frequency Range: 15 to 27 GHz.

• Typical values: Gain 16 dB

• RF connectors (I/O): 2.92 mm 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	15	-	27	GHz
Output Power (P1dB)	25.5	28	30	dBm
Gain	15	16	18	dB
Noise Figure	-	-	-	dB
VSWR input	-	2.0:1	-	-
VSWR output	-	2.0:1	-	-
DC Voltage	8	12	16	V
Power Consumption		17.5		W
Connectors	2.92 mm Female IN/OUT			-

Specifications at a case temperature of 25°C



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## Output Power at 1 dB Compression

Figure 1 shows output power at 1dB compression measurement as a function of frequency at room temperature (25°C).

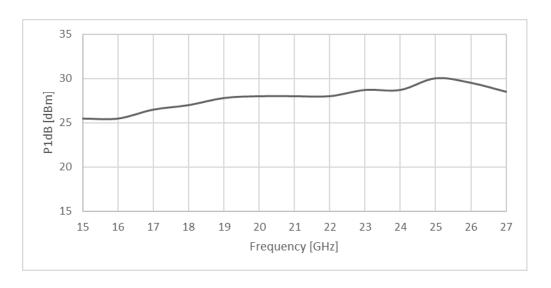


Figure 1: ERZ-HPA-1500-2700-29 P1dB

## **Small Signal Gain**

Figure 2 shows the small signal gain measurement as a function of frequency at room temperature (25°C).

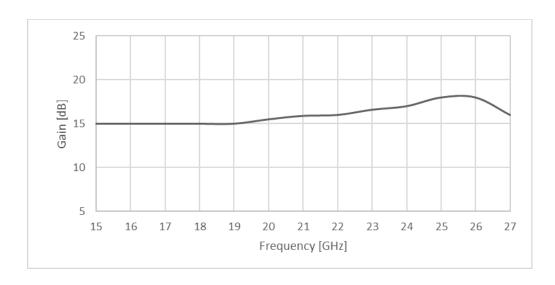


Figure 2: ERZ-HPA-1500-2700-29 Small Signal Gain



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## **Absolute Maximum Ratings**

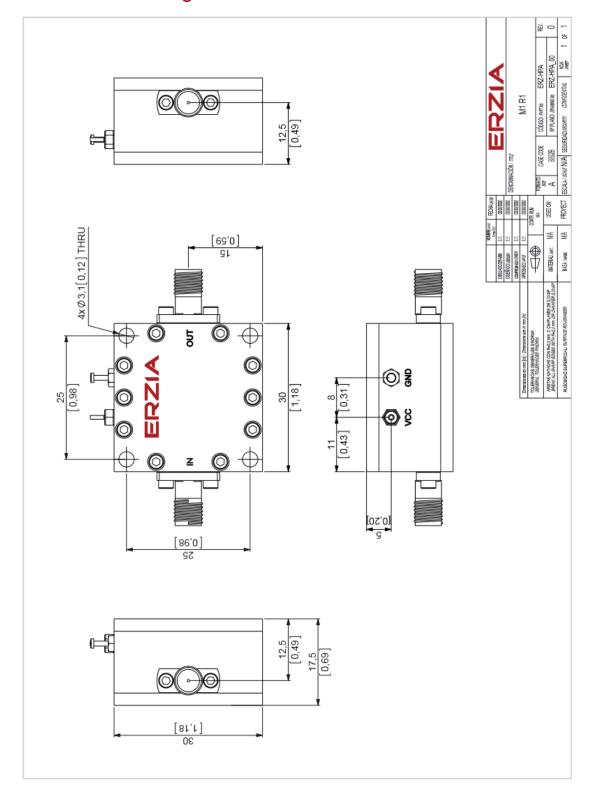
Condition	Value	
DC Voltage	+16 VDC	
Maximum Input Power (CW)	18 dBm	
Operation temperatura (at case)	-35°C to 75°C	
Storage temperature	-55°C to 125°C	

- 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





FRZ-HPA-1500-2700-29

### **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

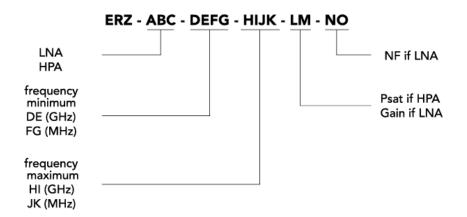
Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

### **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

#### MODEL NUMBER





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