



### Main Features:

- Frequency Range: 16 to 33 GHz.
- Typical values: Psat 23.5, Gain 17 dB
- RF connectors (I/O): 2.92 mm
- Solder filtered pins for DC connection
- Several mounting options
- Gold plated compact aluminum housing
- Hi-reliability and dedicated screening/ environmental tests available under request

### ERZ-HPA-1600-3300-24

The ERZ-HPA-1600-3300-24 is a High Power Amplifier providing an output power of 24 dBm and a gain of 17 dB. The compact size and modularity makes it ideal for a wide range of applications.

### Typical applications:

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

### Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	16	-	33	GHz
Output Power (Psat)	24	24.5	25	dBm
Small Signal Gain	15	17	19	dB
Noise Figure	-	-	-	dB
VSWR input	-	2.0:1	-	-
VSWR output	-	1.5:1	-	-
DC Voltage	9	12	15	V
Power Consumption	-	3.5	-	W
Connectors	2.92 mm IN/OUT			-

Specifications at a case temperature of 25°C

### Output Power at Saturation

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

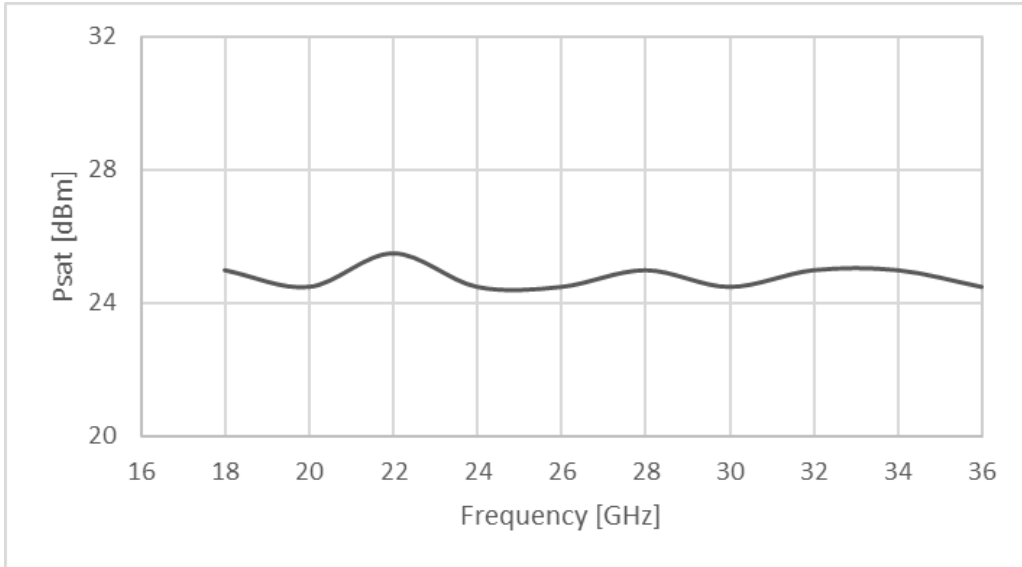


Figure 1: ERZ-HPA-1600-3300-24 Psat

### Small Signal Gain

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

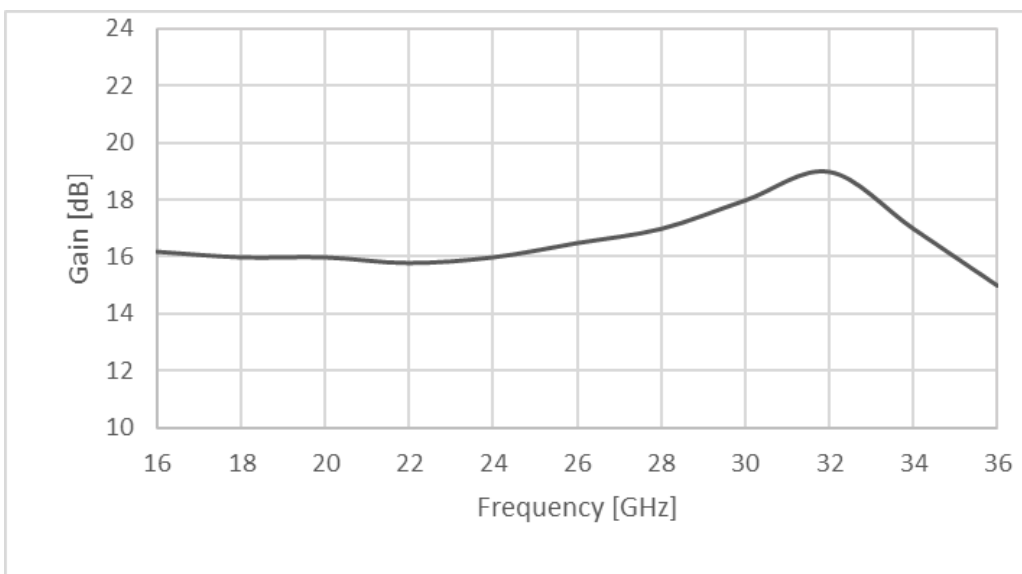


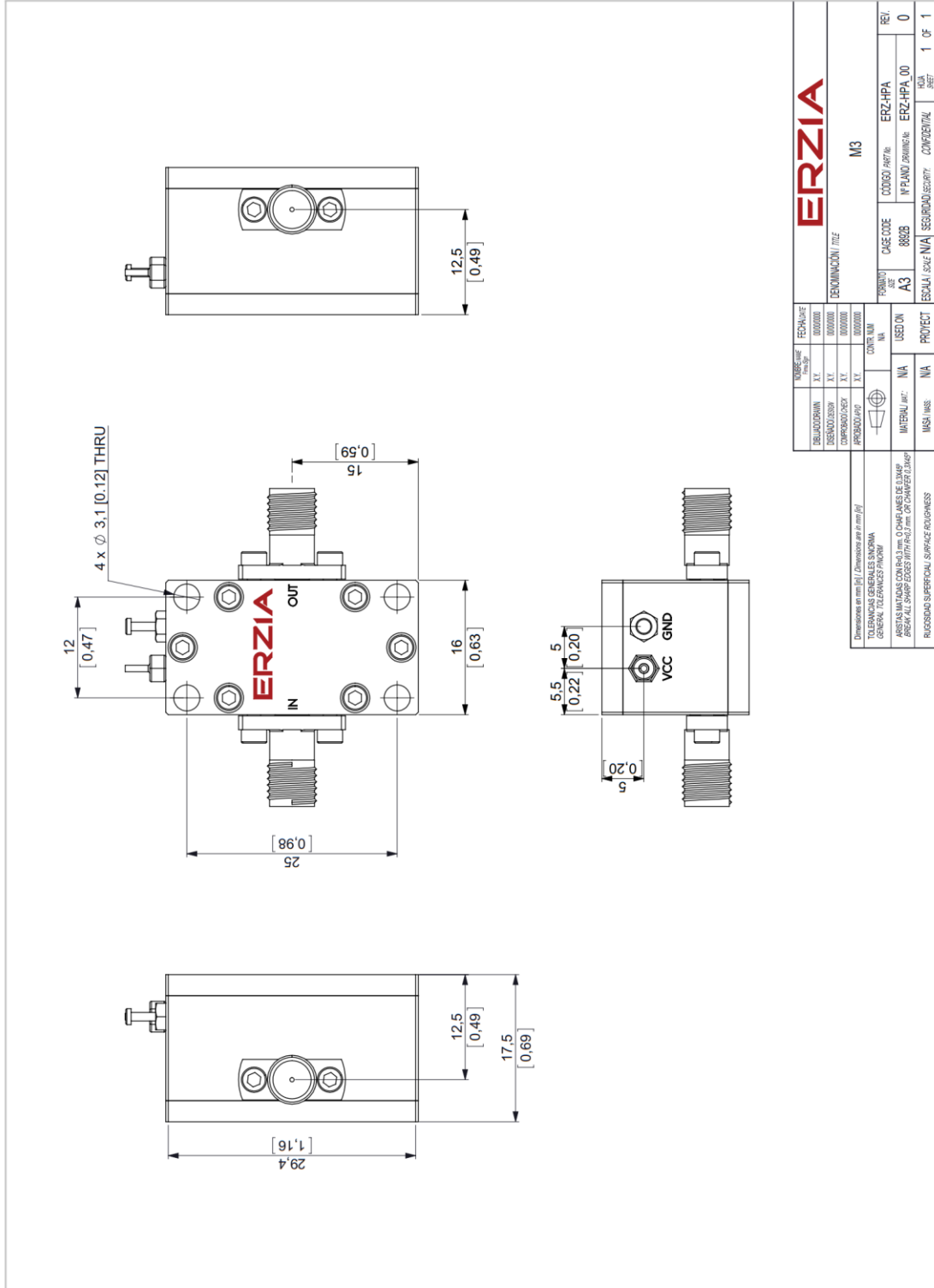
Figure 2: ERZ-HPA-1600-3300-24 Small Signal Gain

### Absolute Maximum Ratings

Condition	Value
DC Voltage	+15 VDC
Maximum Input Power (CW)	6 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.

### Mechanics and Housing



		<b>M3</b>	
NUMERO DE IDENTIFICACION DE LA UNIDAD	FECHA DE ELABORACION DEL DISEÑO	DENOMINACION / TITULO	REV.
00000000 00000000 00000000	00000000 00000000 00000000	ERZ-HPA	0
00000000 00000000	00000000 00000000	ERZ-HPA-1600-3300-24	0
MATERIAL	USADO EN	CODIGO PART.	ERZ-HPA
N/A	N/A	A3	0
MATERIAL USE:	PROTECT	INFORMACION:	N/A
N/A	N/A	ERZ-HPA-1600-3300-24	1 OF 1

Dimensiones en mm [in] / Dimensiones en in mm [in]

ERZIA S.A. - C/ Camino de San Juan, 10 - 46100 Sagunto (Valencia) - España  
 GENERAL DE ENCOMENDAS Y PREGUNTAS  
 ERZIA S.A. - C/ Camino de San Juan, 10 - 46100 Sagunto (Valencia) - España  
 GENERAL DE ENCOMENDAS Y PREGUNTAS

RUGOSIDAD SUPERFICIAL: SURFACE ROUGHNESS

## 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

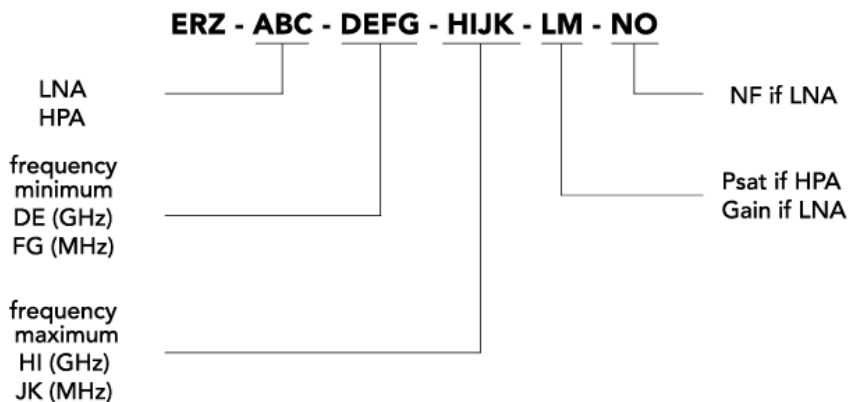
Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

## 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



# ERZIA

20160819\_rev1.0

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