



Main Features:

- Frequency Range: 6 to 18 GHz.
- Typical values: Psat 32 dBm, Gain 23 dB
- RF connectors (I/O): SMA Female
- 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-0600-1800-32

The ERZ-HPA-0600-1800-32 is a Wideband Amplifier providing an output power of 32 dBm and a gain of 23 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	6	-	18	GHz
Output Power (Psat)	31.7	32	33	dBm
Gain	21	23	25.5	dB
Noise Figure	-	-	-	dB
VSWR input	1.4:1	1.8:1	2.5:1	-
VSWR output	1.4:1	2.2:1	4.4:1	-
DC Voltage	8	12	16	V
Power Consumption	-	15	-	W
Connectors	SMA Female IN/OUT			-

Specifications at case temperature of 25°C

Saturated Output Power

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

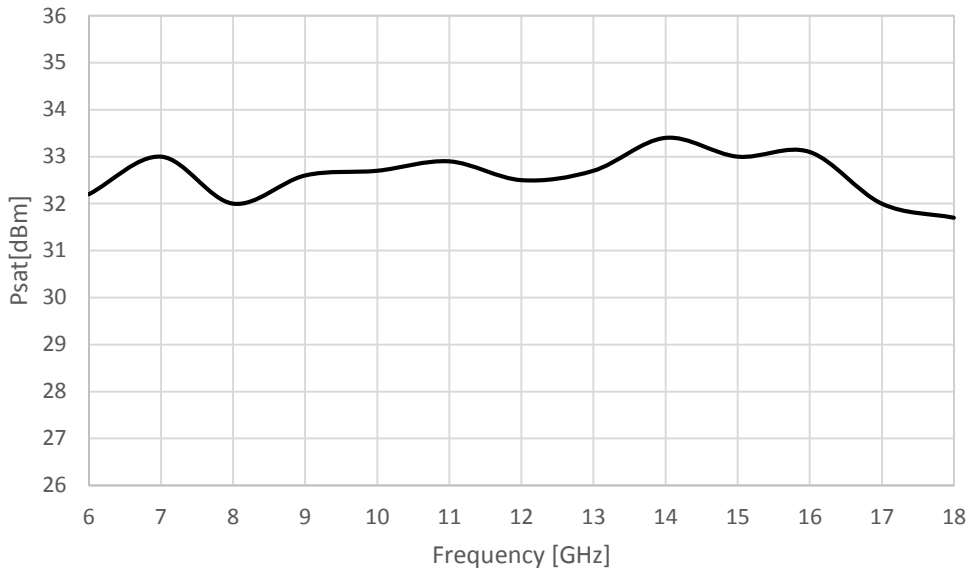


Figure 1: ERZ-HPA-0600-1800-32 Psat

Small Signal Gain

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

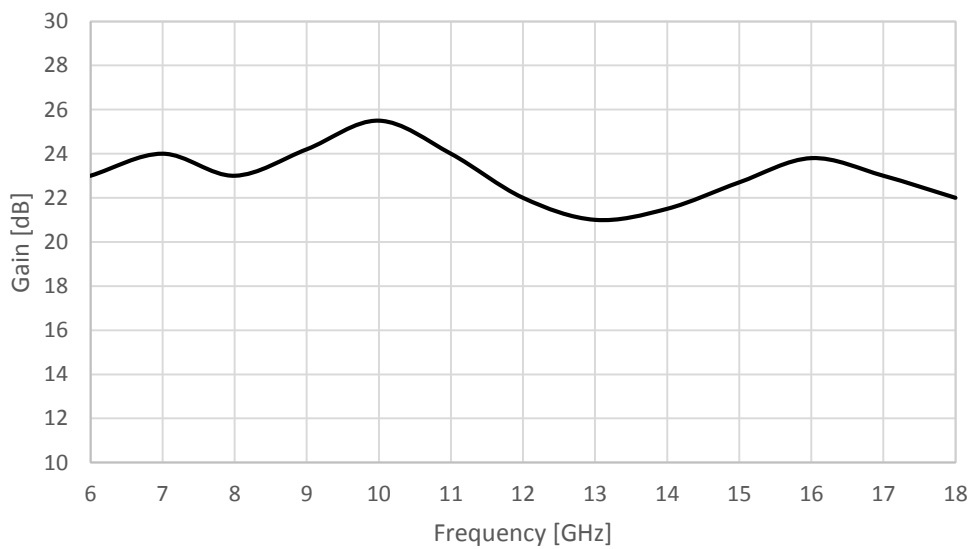


Figure 2: ERZ-HPA-0600-1800-32 Small Signal Gain

Absolute Maximum Ratings

Condition	Value
DC Voltage	+16 VDC
Maximum Input Power (CW)	25 dBm
Operation temperatura (at case)	-45 to 85°C
Storage temperature	-55 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.

Environmental Specifications (By Design)

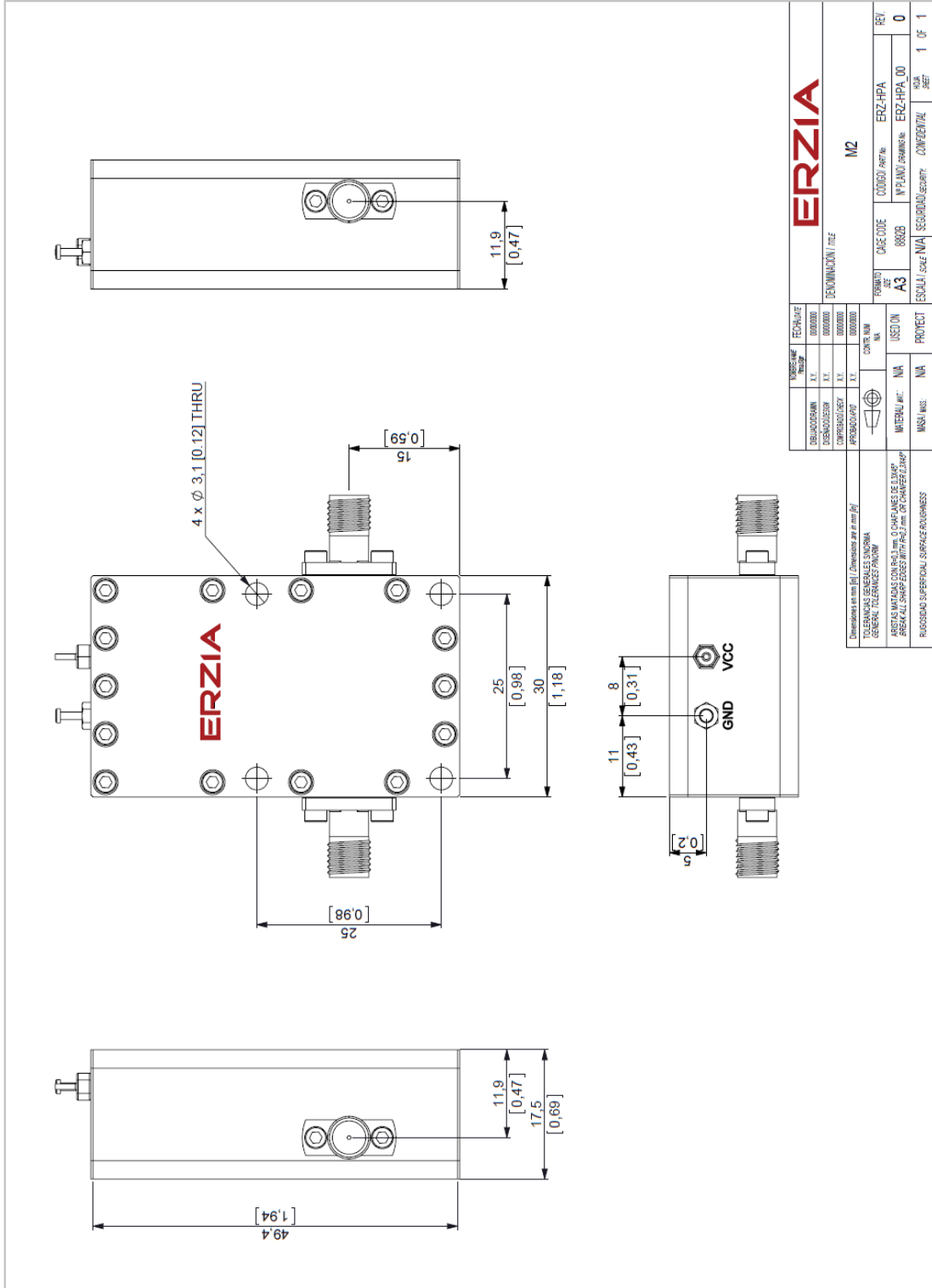
Operating Temperature:	-45 to +85 °C	(MIL-STD-810F, method 520.2)
Storage Temperature:	-55 to 125 °C	(MIL-STD-810F, method 520.2)
Vibration:	8g rms	(MIL-STD-810F, method 514.5)
Shock:	20g,11ms,saw-tooth	(MIL-STD-810F, method 516.5)
Acceleration:	15g	(MIL-STD-810F, method 513.5)

RoHS Compliance

This part is compliant with EU 2011/65/UE RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment)



Mechanics and Housing



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

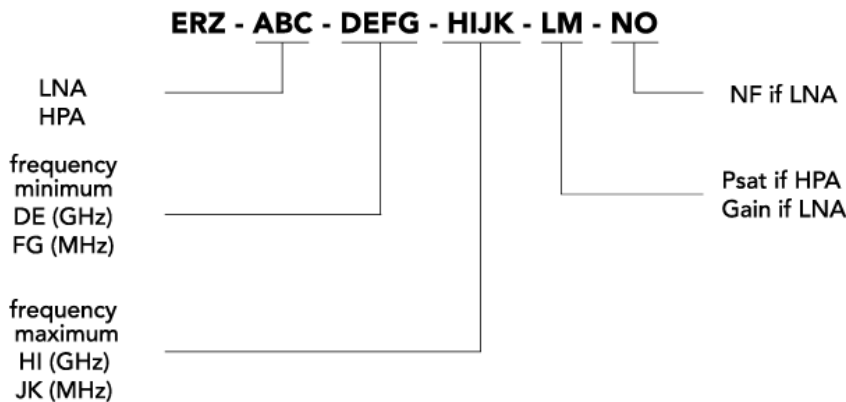
Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

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

20170110_rev1.0

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