ERZIA

DATASHEET

High Power Amplifier

ERZ-HPA-2400-2650-32

Main Features:

- Frequency Range: 24 to 26.5 GHz.
- Typical values: Psat 33 dBm, Gain 35 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

ERZ-HPA-2400-2650-32

The ERZ-HPA-2400-2650-32 is a Ka Band High Power Amplifier providing an output power of 33 dBm and gain of 35 dB. The compact size and modularity makes it ideal for a wide range of applications.

Typical applications:

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

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	24	-	26.5	GHz
Output Power (Psat)	32	33	34	dBm
Small Signal Gain	33	35	37	dB
Gain Flatness	-	±0.6	-	dB
VSWR input	1.1:1	1.2:1	1.5:1	-
VSWR output	1.1:1	1.3:1	1.8:1	-
DC Voltage	9	12	15	V
Power Consumption (@Psat)	-	12.5	-	W
RF Connectors	2.92 mm Female IN/OUT			-

Specifications at a case temperature of 25°C at 12V.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25°C ± 1°C
Humidity	44% ± 10%
DUT Warm up time	30 min
DUT minimum operation time	24 hours
Test equipment warm up time	2 hours
Additional temperature cycles in climatic chamber (DUT OFF)	-40°C to 85°C

Absolute Maximum Ratings

Condition	Value
DC Voltage	12 +/-4 VDC
Maximum Input Power (CW)	10 dBm
Operation temperature (at case)	-40 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:	-40 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 & REACH Compliance

This part is compliant with EU 2011/65/UE RoHS (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) and REACH (Registration, Evaluation, Authorization and restriction of Chemical substances) directives.

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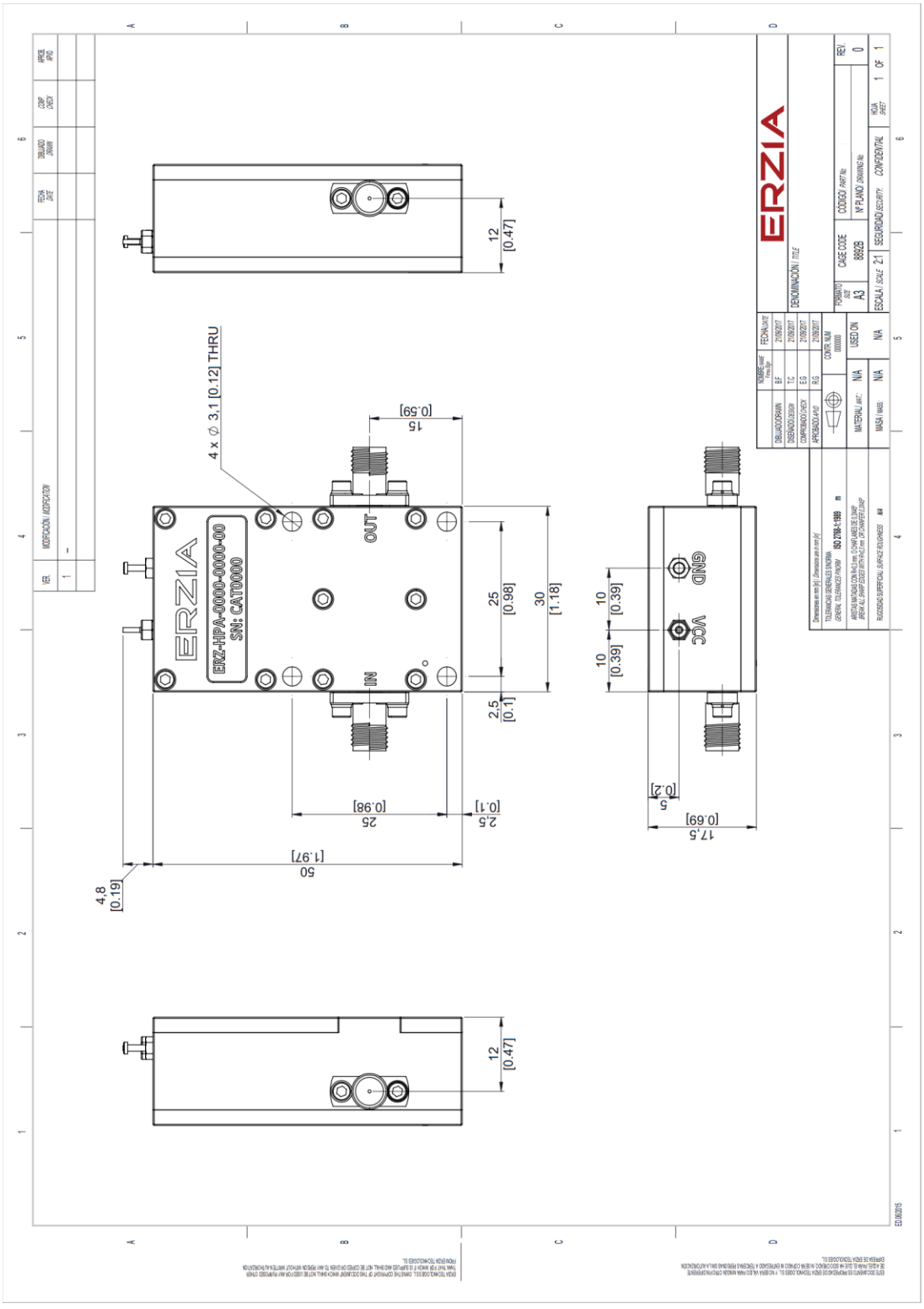
Mechanics and Housing



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

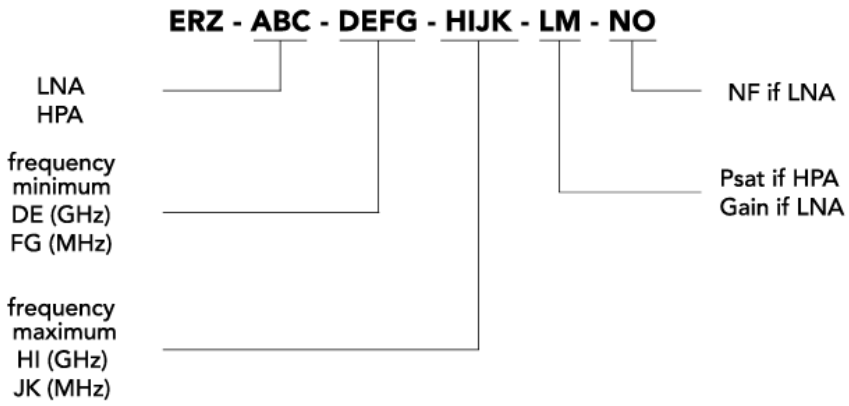
Most of ERZIA´s products are based on rad-hard technologies and can be manufactured and integrated according specific hi-rel standard-screening for space, aeronautics or specific hi-reliability usage.

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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20210901_rev1.1

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