

PRELIMINARY*



ERZ-HPA-0600-1800-40-P

The ERZ-HPA-0600-1800-40-P is a High Power Amplifier providing a gain of 28 dB with a Psat 10 W. It can be operated in CW, or in pulsed mode.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	6.0	-	18.0	GHz
Output Power (Psat) (CW)	40	-	42	dBm
Small Signal Gain	26	-	31	dB
DC Voltage1	-	28	-	V
Current Consumption at 25°C at Psat	2.0	-	2.4	A
DC Voltage 2	-	- 5	-	V
VSWR IN	-	-	3.1	-
VSWR OUT	-	-	3.2	-
*All the measurements performed in the test fixture (see page 4)				

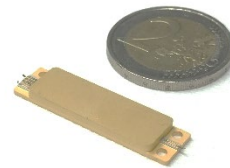
Main Features:

- Frequency Range: 6 to 18 GHz.
- Typical values: Gain 28 dB, Psat: 40 dBm
- Drop-in
- Test fixture available
- Gold plated compact housing
- Hi-reliability and dedicated screening/ environmental tests available under request

Typical applications:

- Radar / Phase Array
- Satcom / Telecom
- Space / Aerospace / Military

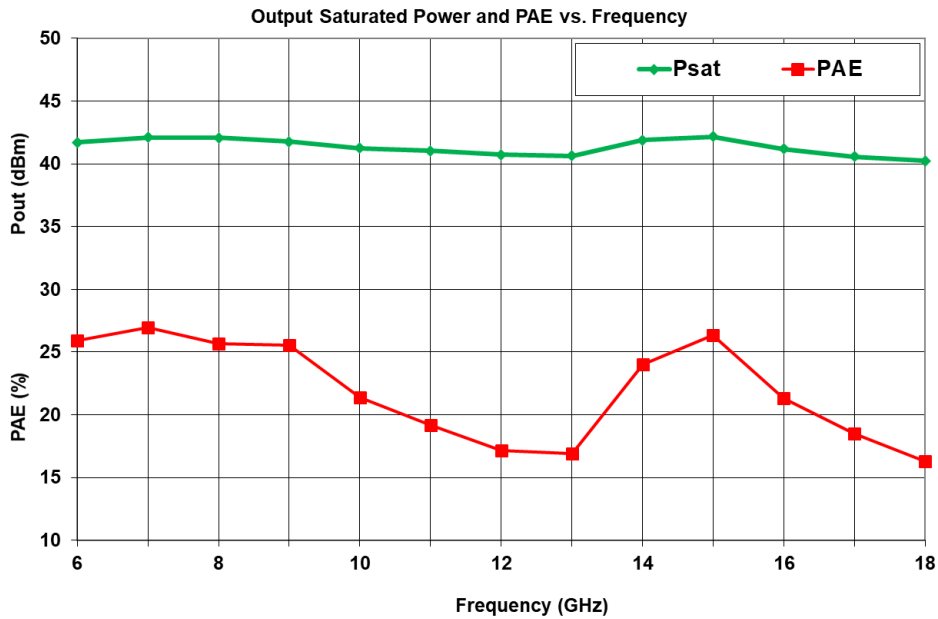
Drop-in Compact Size



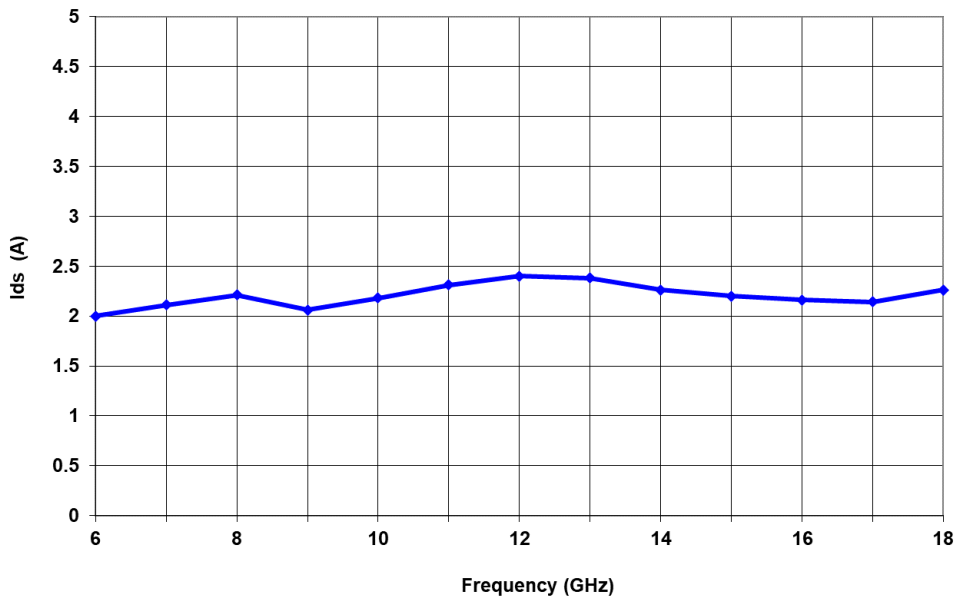
*Preliminary datasheet. Specifications subject to change without notice.

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Output Saturated Power and PAE at Pin=26dBm



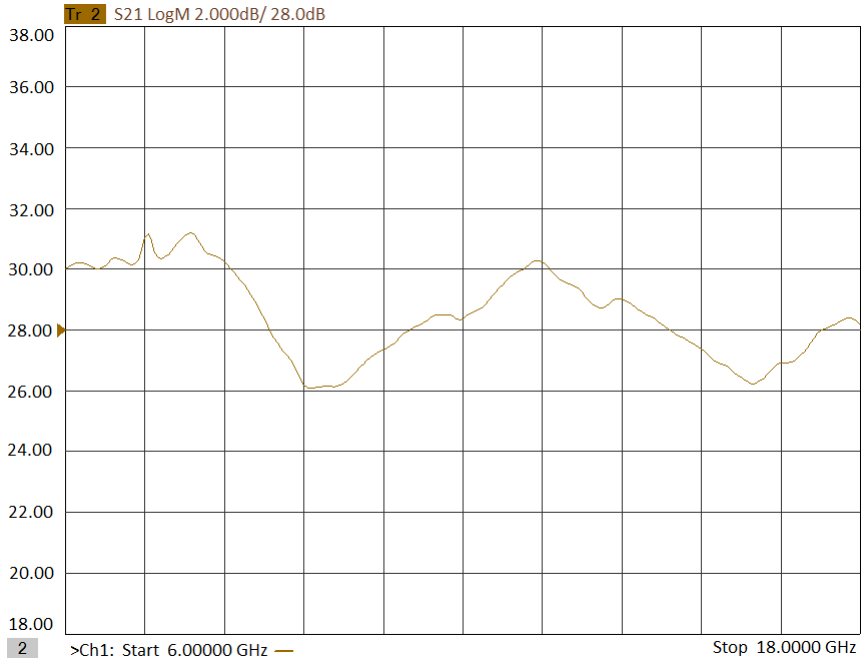
Drain Current at Pin=26dBm



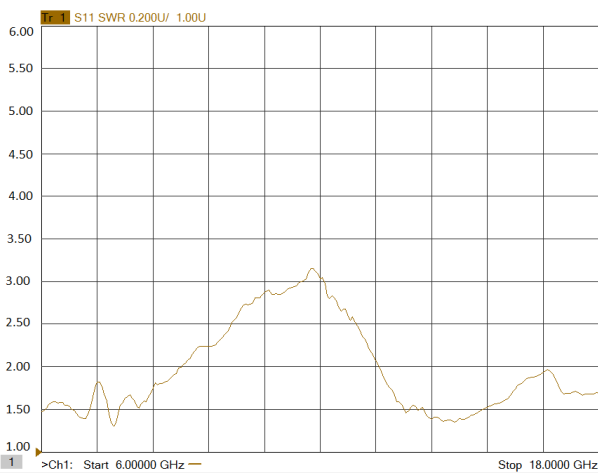
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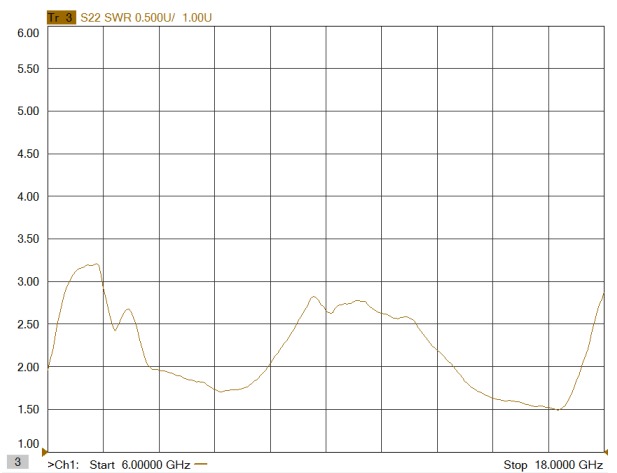
Small Signal Gain



Input VSWR



Output VSWR

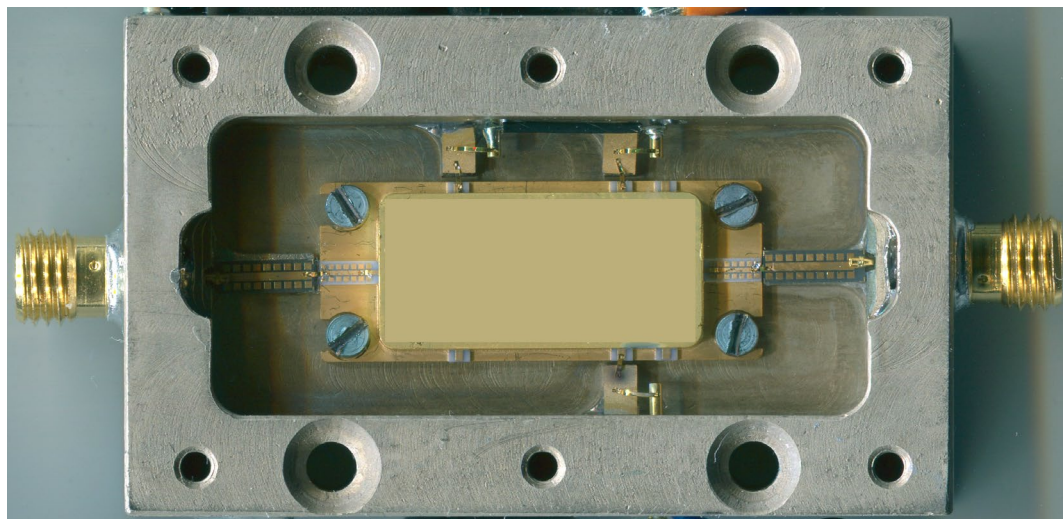


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Measurements Conditions

All the measurements provided in this report were performed in the test fixture presented:



All the measurements provided in this report were performed at +25°C at the baseplate.

Absolute Maximum Ratings

Condition	Value
DC Voltage 1	+28 VDC
Maximum Input Power (CW)	29 dBm
Operation temperature (at case)	-40°C to 70°C
Storage temperature	-55°C to 125°C

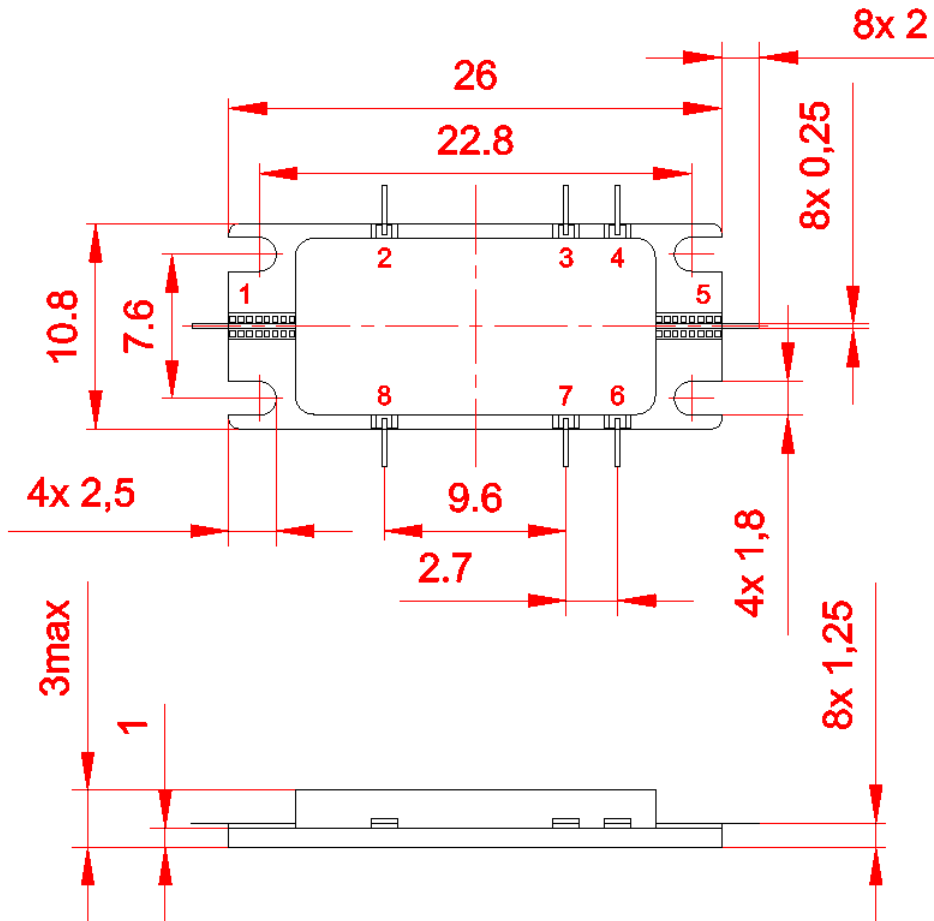
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

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Mechanics and Housing

- P1 Package Outline (dimensions are in mm)



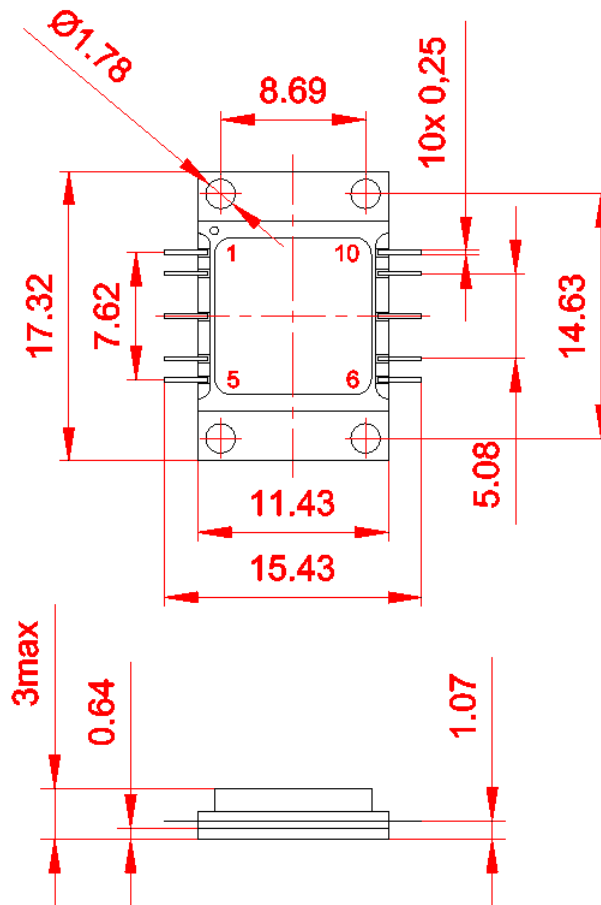
Pin	Description
1	RF In
3	Drain Voltage (+28 V)
5	RF Out
7	Gate Voltage (-5 V)
2, 4, 6, 8	N/C

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Mechanics and Housing

- P2 Package Outline (dimensions are in mm)



Pin	Description
3	RF In
8	RF Out
2, 4	Gate Voltage (-5 V). *It's enough to feed only one pin
7, 9	Drain Voltage (+28 V) . *It's enough to feed only one pin
1, 5 ,6, 10	N/C

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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

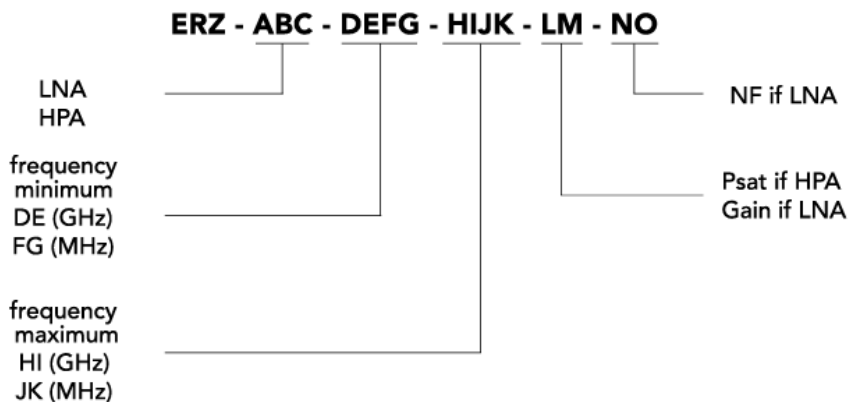
Most of ERZIA's products are based on rad-hard technologies and can be manufactured and integrated according to MIL / ECSS or specific hi-rel standard-screening for space, aeronautics, military or specific hi-reliability usage.

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

MODEL NUMBER



ERZIA

20160420_rev1.0

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