

General Description

The EXP7602 is a GaAs MMIC power amplifier designed for 50-Ohm systems, and specified for operation in the 71 to 76 GHz range of E-Band.

The EXP7602 enables delivery of 25 dBm RF output power when driven to 3 dB of gain compression, and maintains good linearity well below the onset of gain compression. Typical small-signal gain is 22 dB with flatness of ±0.5 dB over a 1.25 GHz window. DC power consumption is as low as 2.2 W.

The EXP7602 also provides a built-in E-Band power detector, and internally de-couples DC form RF input and output ports to simplify system-level design.

Applications

- · Point-to-Point E-band radios
- · Test and measurement equipment

Features

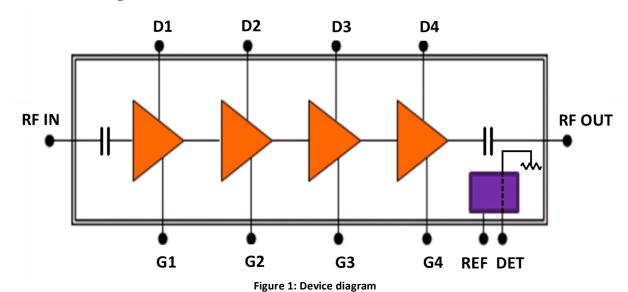
- 71 to 76 GHz Frequency Range
- 22 dB Nominal Gain
- 31 dBm Nominal Output IP3
- 23.5 dBm Nominal P_{-1dB}
- 25 dBm Nominal P-3dB
- 4 V, 550 mA Nominal Quiescent Drain Bias
- 4.17 mm x 1.87 mm Die Size

Ordering Information

Part	Description
EXP7602-DNT	RoHS compliant bare
	die in gel packs

For price, delivery schedules, and to place orders, please contact IDT: www.IDT.com/go/sales

Device Diagram







Corporate Headquarters

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Sales

1-800-345-7015 or 408-284-8200 Fax: 408-284-2775 www.IDT.com/go/sales

Tech Support

www.IDT.com/go/support

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