

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 from RF input and output ports to simplify system-level design.

Applications

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

Device Diagram

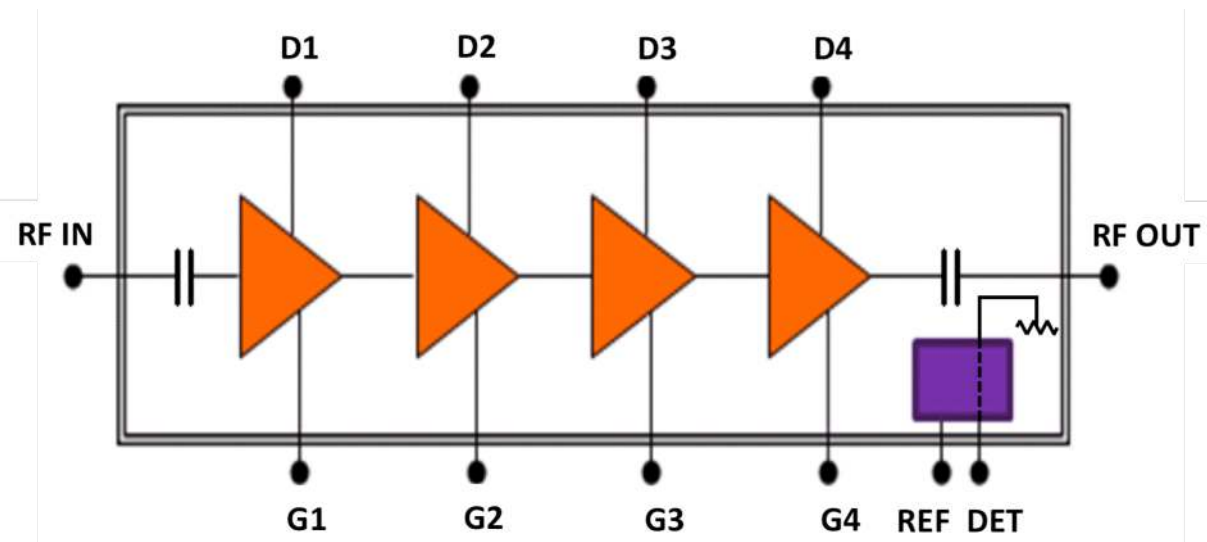


Figure 1: Device diagram

Features

- 71 to 76 GHz Frequency Range
- 22 dB Nominal Gain
- 31 dBm Nominal Output IP_3
- 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

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