

## General Description

The IDT EXE8602 is a high-performance GaAs power detector with linear voltage output over an input operating power range from -2 to +23.5dBm, low insertion loss of 0.5 dB typical, broadband performance from 71 to 86 GHz, return loss better than 13 dB and excellent repeatability. This device can be used for a wide range of applications from defense electronics to commercial communication systems and is ideally used for E-band applications.

All die are visually inspected to Mil-Std-883 Method 2010.

## Applications

- Defense electronics
- E-band communications systems

## Device Diagram

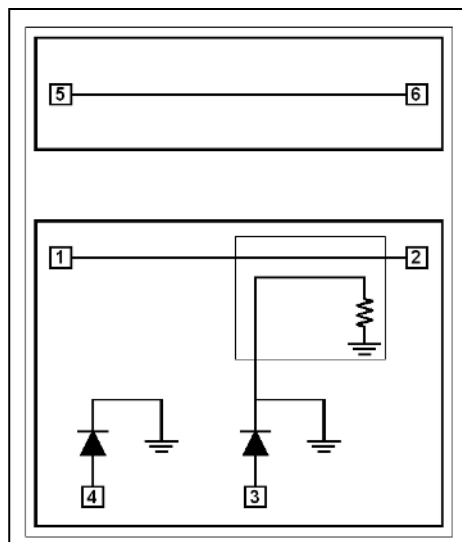


Figure 1: Device block diagram

## Features

- Frequency: 71 - 86 GHz
- Input Power Range: -2 to + 23.5dBm
- Insertion Loss: 0.5 dB, typical
- Return Loss: <13 dB
- RoHS Compliant
- Die size: 0.87 mm x 1.87 mm

## Ordering Information

Part	Description
EXE8602-DNT	RoHS compliant bare die in waffle pack

For price, delivery schedules, and to place orders, please contact IDT: [www.IDT.com/go/sales](http://www.IDT.com/go/sales)

**Corporate Headquarters**

6024 Silver Creek Valley Road  
San Jose, CA 95138

[www.IDT.com](http://www.IDT.com)

**Sales**

1-800-345-7015 or 408-284-8200  
Fax: 408-284-2775

[www.IDT.com/go/sales](http://www.IDT.com/go/sales)

**Tech Support**

[www.IDT.com/go/support](http://www.IDT.com/go/support)

DISCLAIMER Integrated Device Technology, Inc. (IDT) and its affiliated companies (herein referred to as "IDT") reserve the right to modify the products and/or specifications described herein at any time, without notice, at IDT's sole discretion. Performance specifications and operating parameters of the described products are determined in an independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of IDT's products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of IDT or any third parties.

IDT's products are not intended for use in applications involving extreme environmental conditions or in life support systems or similar devices where the failure or malfunction of an IDT product can be reasonably expected to significantly affect the health or safety of users. Anyone using an IDT product in such a manner does so at their own risk, absent an express, written agreement by IDT.

Integrated Device Technology, IDT and the IDT logo are trademarks or registered trademarks of IDT and its subsidiaries in the United States and other countries. Other trademarks used herein are the property of IDT or their respective third party owners. For datasheet type definitions and a glossary of common terms, visit [www.idt.com/go/glossary](http://www.idt.com/go/glossary). All contents of this document are copyright of Integrated Device Technology, Inc. All rights reserved.