

## 20-40 GHz Driver Amplifier

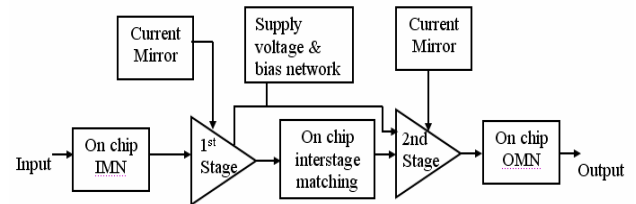
**GEDA02**

### Description

The **GEDA02** is 20 GHz to 40 GHz low power buffer amplifier. The amplifier is designed using 2  $\mu\text{m}$  InGaP HBT process for high frequency applications.

Driver amplifier shows gain of 1dB at 40 GHz with power output of 0dBm. It operates at 4.2Volts.

### Functional Diagram



### Applications

- LMDS
- SATCOM
- VSAT

### Key Features

- High Frequency Amplifier
- Small Size
- High Performance

### Electrical Specification

Conditions:  $V_{cc} = 4.2 \text{ V}$

Parameter	Min	Typical	Max	Units
Frequency Range	20		40	GHz
Gain	1		6	dB
P1dB Pout @20GHz		6		dBm
Input Return Loss		10		dB
Output Return Loss		10		dB
Supply current		30		mA
Stability	Unconditionally Stable			
Supply Voltage		4.2		V

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### Simulated results

