



### 7-20 GHz Driver Amplifier

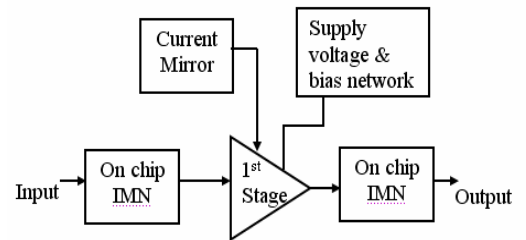
**GEDA01**

#### Description

The **GEDA01** is 7.0 GHz to 20.0 GHz low power single stage buffer amplifier. The amplifier is designed using 2  $\mu\text{m}$  InGaP HBT Technology for high frequency applications.

Driver amplifier shows gain of 4.5 dB at 20 GHz with power output of 9 dBm. It operates at 4.2 Volts.

#### Functional Diagram



#### Applications

- SATCOM
- VSAT
- LMDS (Local Multipoint Distribution Services)

#### Key Features

- Broadband Amplifier
- Small Size
- High Performance

#### Electrical Specification

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

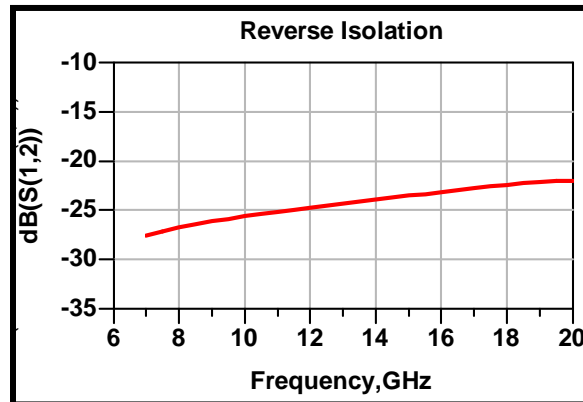
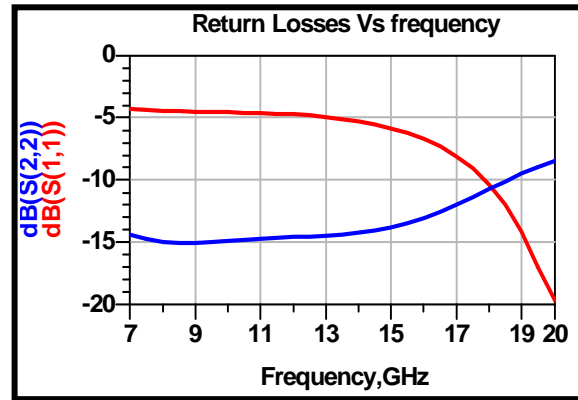
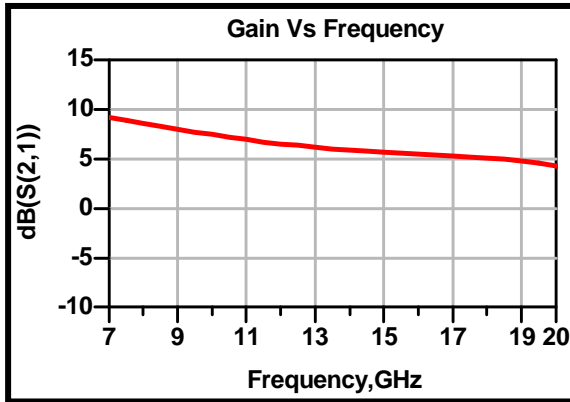
Parameter	Min	Typical	Max	Units
Frequency Range	7		20	GHz
Gain	4.5		9	dB
Power Output (P1dB) @7GHz		12		dBm
Power Output (P1dB) @20GHz		9		dBm
Input Return Loss		5		dB
Output Return Loss		10		dB
Stability	Unconditionally Stable			
Supply current		26.5		mA
Supply Voltage		4.2		V



7-20 GHz Driver Amplifier

GEDA01

Simulated results





### 7-20 GHz Driver Amplifier

GEDA01

