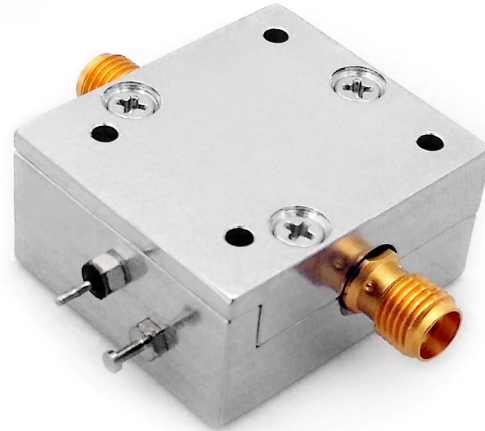


Application

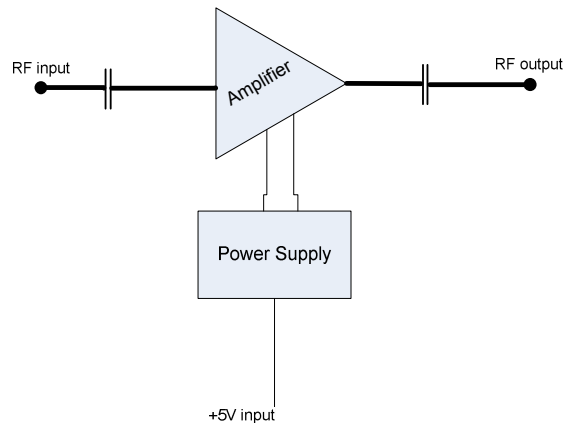
Point to Point Radio
SATCOM

Features

- Frequency range: 20 ~ 26 GHz
- Power: 16 dBm P1dB
- Gain: 20 dB
- OIP3: 26 dBm at 10 dBm/tone
- Single +5V power supply
- 1.2x1.05x0.6 inch package
- RF connectors: SMA



Functional Block Diagram



General Description

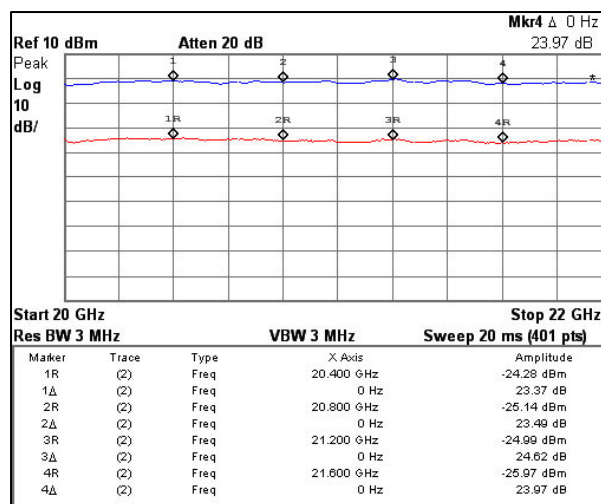
The DRC23000M is a K-band Driver amplifier module with integrated power supply circuit providing more than 16dBm output power from 20 to 26 GHz frequency band. This high gain power amplifier has a typical 20dB gain over its frequency range. With 26dBm third order intercept point, DRC23000M is one the best options for high gain amplifier chain where a driver with minimum none-linear effects is required. The integrated single +5V power supply and small modular configuration with SMA connectors for input and output make this amplifier easy to use in any system on this band.

Absolute Maximum Rating

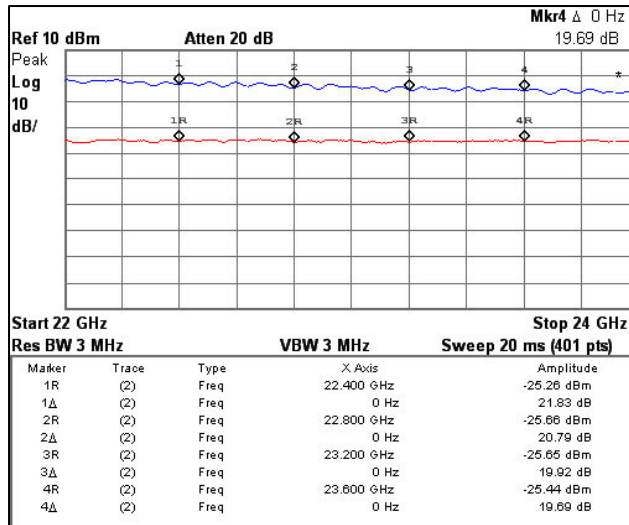
Parameter	Rating
Power supply	7 V
RF input power	0 dBm
Storage temperature	-40 to 150 °C
Operational body temperature	-40 to 65 °C

Specifications

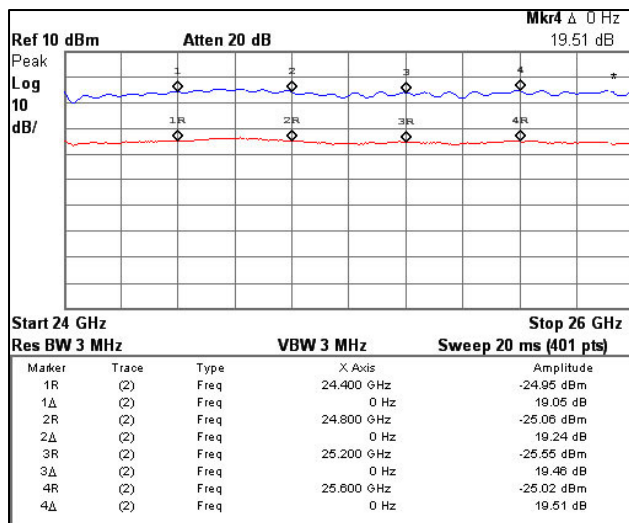
Parameter	Condition	Min	Typ	Max	Unit
Frequency		20		26	GHz
Gain		19	20	24	dB
Vd			5		V
Id			300	350	mA
Pout	1dB		16		dBm
Input VSWR				3:1	
Output VSWR				3:1	
Isolation		40			dB
OIP3	10dBm/tone		26		dBm
NF			7		dB
Temperature		-40		55	°C

Typical Performance Graphs


Gain vs Frequency 20~22 GHz

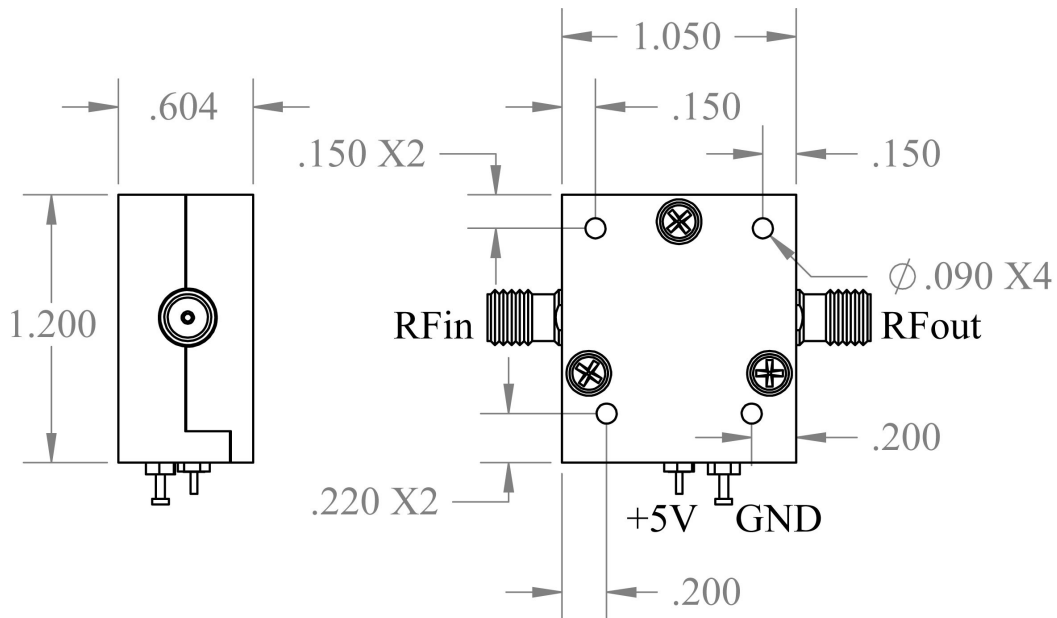


Gain vs Frequency 22~24 GHz



Gain vs Frequency 24~26 GHz

Dimension



Custom Design

The Gain of this driver amplifier can be customized. To order a customized module, please contact ZComm.