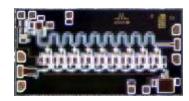


BROADBAND DISTRIBUTED AMPLIFIER

ADM-0050L

The ADM-0050L is a broadband, efficient GaAs PHEMT distributed amplifier. It can be operated with a single positive bias, or with a negative bias voltage to achieve 8 dB typical gain and 17 dBm typical output power at 1 dB compression for only 160 mA of current. Applications include mixer LO amplification, electronic warfare, test and measurement, and amplification of optical modulator signals. It is an excellent alternative to competing GaAs PHEMT distributed amplifiers.



Features

- Optional Positive Bias Operation
- +17 dBm Typical Saturated Output Power
- Buffer- Amplifiers for Mixer LO
- 3rd and 5th Harmonic Generation
- Broadband 50 ohm Matching
- Unconditionally Stable

Electrical Specifications - Specifications guaranteed from -30 to +70°C, measured in a 50-Ohm system.

Parameter	Frequency (GHz)	Min	Тур	Max
Input for Saturated Output (dBm)		+5	+10	+15
Saturated Output Power with negative bias (dBm)			+17	
Small Signal Gain with negative bias (dB)			8	
Return Loss (dB)	DC-50		12	
Noise Figure (dB)			5	
Third Order Output Intercept Point (dBm)			20	
Bias Requirements (mA)				
+5.0 to +7.0 / -0.25 Volts			125	
+5.0 to +7.0 / 0.0 Volts			150	



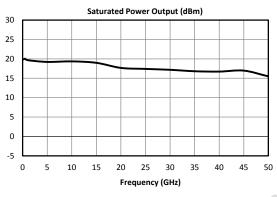
BROADBAND DISTRIBUTED AMPLIFIER

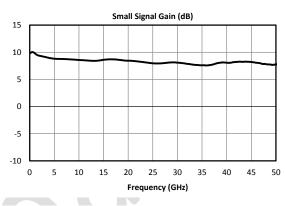
ADM-0050L

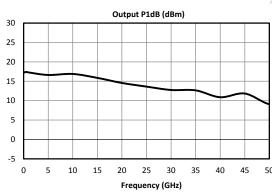
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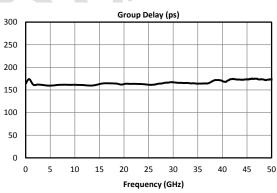
Frequency DC to 50.0 GHz

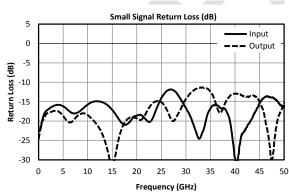
Typical Performance

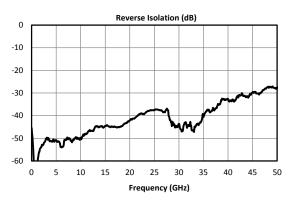










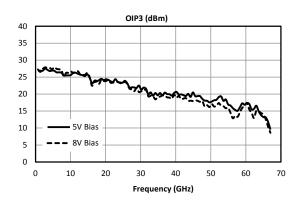




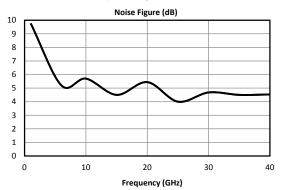
BROADBAND DISTRIBUTED AMPLIFIER

ADM-0050L

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Frequency DC to 50.0 GHz



Absolute Maximum Ratings				
Parameter	Maximum Rating			
Positive Bias Voltage	9 V			
Positive Bias Current	200 mA			
Negative Bias Voltage	-2 V			
Negative Bias Current	2 mA			
RF Input Power	+15 dBm			
Power Dissipation	875 mW			
Operating Temperature	-55°C to +85°C			
Storage Temperature	-65°C to +150°C			

DATA SHEET NOTES:

1. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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