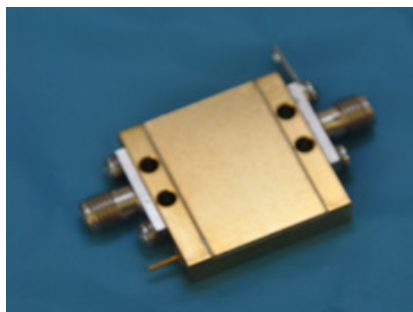


Surface Mount RF Amplifier

- * Operating Frequency : 20-3000 MHz
- * Linear Power : 24 dBm typ
- * Noise Figure : 2.5 dB typ
- * Gain : 24 dB



Description: Designed for linear application in the 20-3000 MHz range. This amplifier utilizes MMIC devices that provide high gain, wide dynamic range and excellent 3rd OIP.

Suggested applications: General Purpose Gain Block, Low Cost, Surface Mountable

ELECTRICAL SPECIFICATION @ VDD= +9VDC; Temp. = 25 °C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	10		3000	MHz
Gain	G	23	24		dB
Gain Flatness	ΔG		± 0.5	± 1.0	dB
Noise Figure (10-50 MHz)	NF		5.5	6	dB
Noise Figure 50-3000MHz	NF		3	4	dB
Power Output P1dB	P1dB	23	24		dBm
Output 3rd Order Intercept Point	OIP3/IP2	30/40	35/45		dBm
VSWR in/out	S11/S22		1.5/1.7 :1	1.7/2.0 :1	Ratio
Operating Voltage	Vdc		9	10	Volt
Operating Current	Id		260	280	mA

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	1.0 x 1.0 x 0.375		In
RF Connectors IN/OUT	SMA-F field replaceable		
DC Connector	Pin		
Cooling	none		

PROTECTIONS

RF Input Power	20 dBm max	
Reverse Polarity Protection	Option	
Load VSWR	Infinite	
Stability	100% Tested	

ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	- 20 °C		70 °C	°C
Storage Temperature	Tstg	- 40C		100	°C

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Outline Drawing

