AMPLIFIER SOLUTIONS CORPORATION

ASC201C

Low Noise RF Amplifier

* **Operating Frequency : 20-2000 MHz**
* **Linear Power : +22 dBm**
* **Saturated Power : +25 dBm**
* **Noise Figure : 2.5 dB**
* **Gain : 24 dB**

Description: Designed for linear application in the 20-2000MHz range. This amplifier ultilizes GaAs FET devices that provide high gain, wide dynamic range and excellent 3rd OIP.
Suggested applications: Multicarrier, Pulse, AM&FM modulation

ELECTRICAL SPECIFICATION @ VDD= +15VDC; Temp. = 25℃, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	20		2000	MHz
Gain	G	22	24		dB
Gain Flatness	∆ G		±0.5	± 1.0	dB
Noise Figure (100-1000 MHz)	NF		2.5	5	dB
Power Output P1dB	P1dB	20	22		dBm
Output 3rd Order Intercept Point	OIP3	31	34		dBm
VSWR in/out	S11/S22		1.6 :1	2.0 :1	Ratio
Operating Voltage	Vdc		15	17	Volt
Operating Current	Id		250	300	mA

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.0 x 1.0 x 0.5		In
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered Solder Feed Thru		
Cooling	none		

PROTECTIONS

RF Input Power	15 dBm	
Reverse Polarity Protection	Option	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	- 20℃		70℃	℃
Storage Temperature	Tstg	- 40C		120℃	℃

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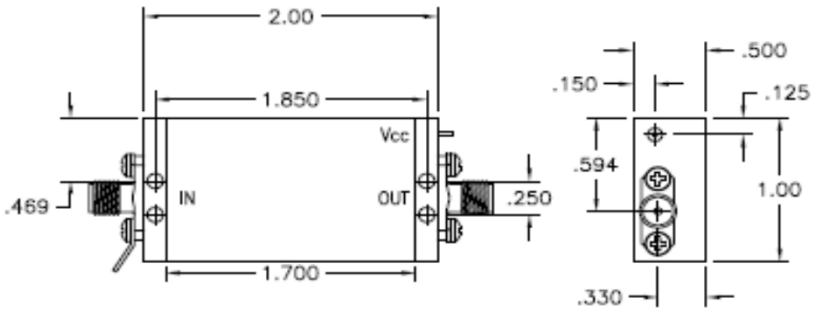
Outline Drawing



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