

## Surface Mount RF Amplifier

- \* Super Low Cost
- \* Operating Frequency : 2-5000 MHz
- \* Linear Power : +14Bm typ
- \* Noise Figure : 6.5 dB typ
- \* Gain : 11 dB



**Description:** Designed for linear application in the 2-5000MHz 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= +5VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	2		5000	MHz
Gain	G	10	11.5		dB
Gain Flatness	Δ G		±0.5	± 1.0	dB
Noise Figure	NF		6.5	8	dB
Power Output P1dB	P1dB	10	14		dBm
Output 3rd Order Intercept Point	OIP3	22	22		dBm
VSWR in/out	S11/S22		1.6 :1	2.0 :1	Ratio
Operating Voltage	Vdc		5		Volt
Operating Current	Id		80	100	mA

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	.45 x .45 x .13		In
RF Connectors IN/OUT	Surface Mount		
DC Connector	Surface Mount		
Cooling	none		

### PROTECTIONS

RF Input Power	10 dBm	
Reverse Polarity Protection	Option	
Load VSWR	Infinite	
Stability	100% Tested	

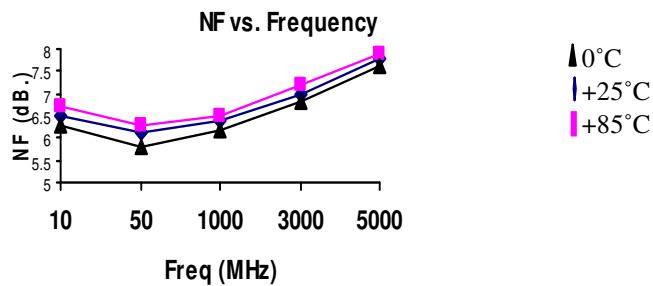
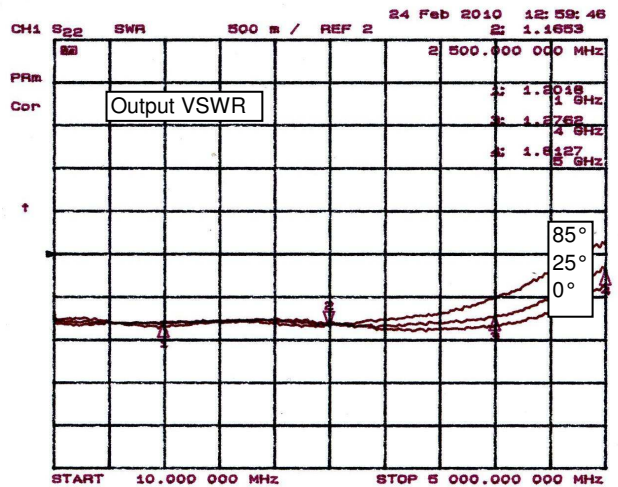
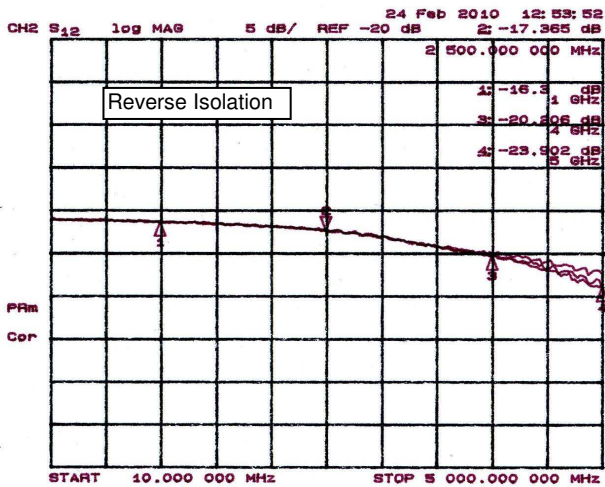
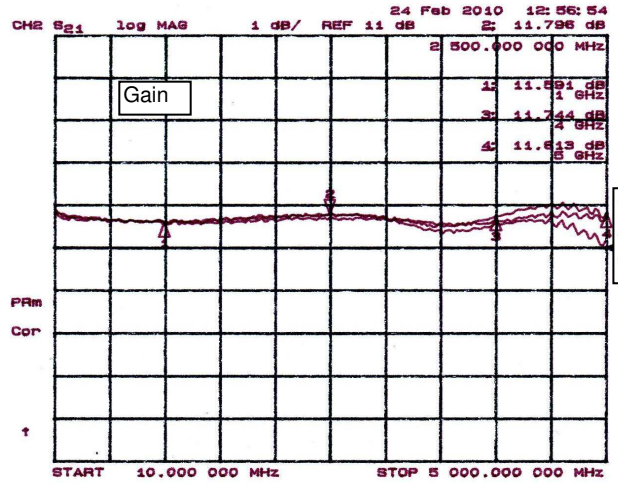
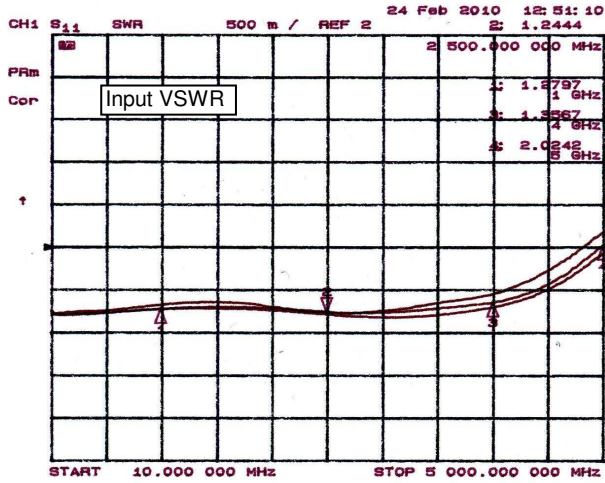
### ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	- 20°C		70°C	°C
Storage Temperature	Tstg	- 40C		180°C	°C

3009 Old State Rd, Telford, PA 18969

Web: [www.amplifiersolutions.com](http://www.amplifiersolutions.com)  
 Email: [sales@amplifiersolutions.com](mailto:sales@amplifiersolutions.com)

Tel: 215-799-2561  
 Fax: 215-799-2563

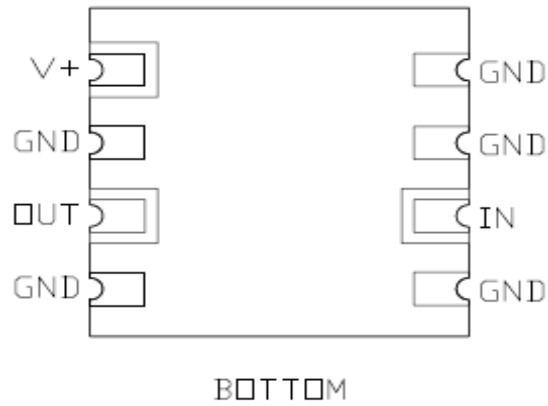
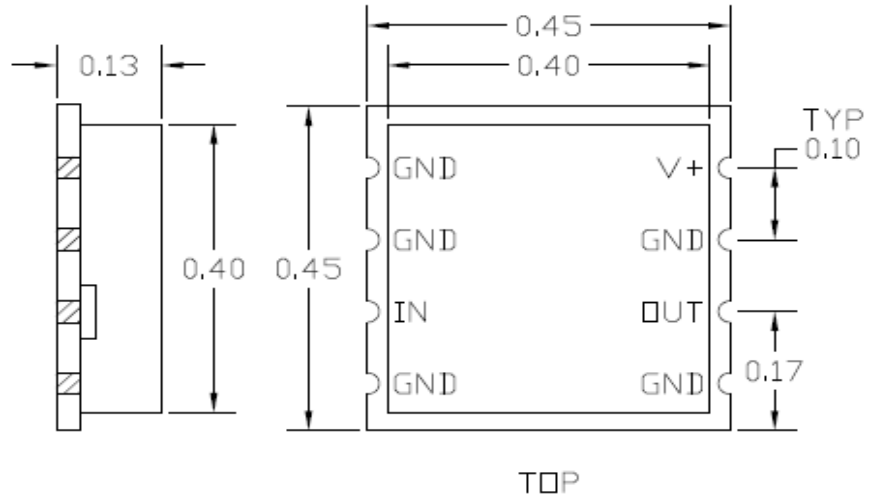


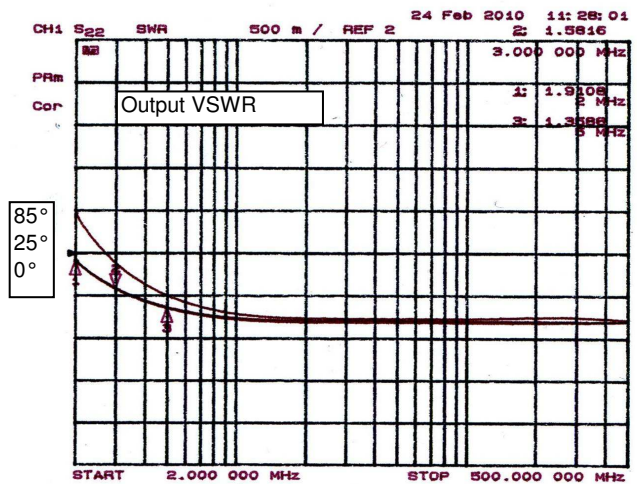
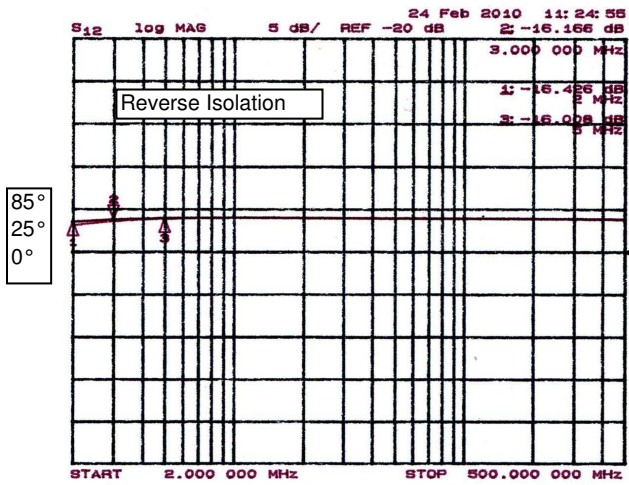
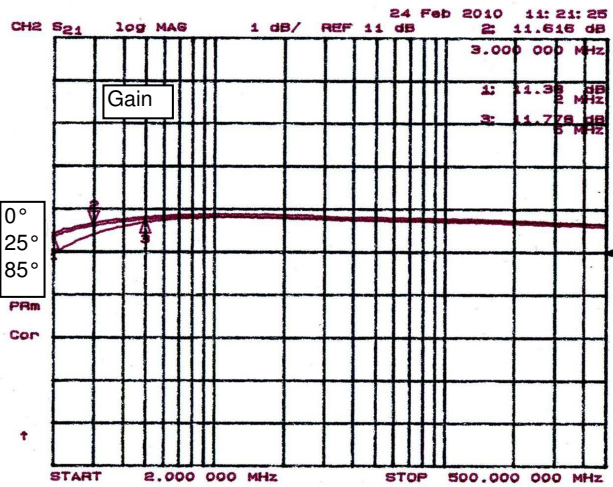
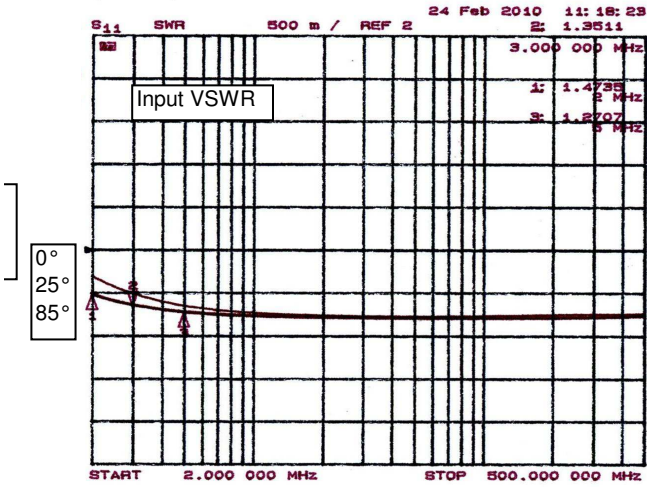
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Outline Drawing





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