

Surface Mount RF Amplifier

- * Super Low Cost
- * Operating Frequency : 2-5000 MHz.
- * Linear Power : +14 Bm. typ
- * Noise Figure : 6.5 dB. typ
- * Gain : 11 dB.
- * No external components required



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

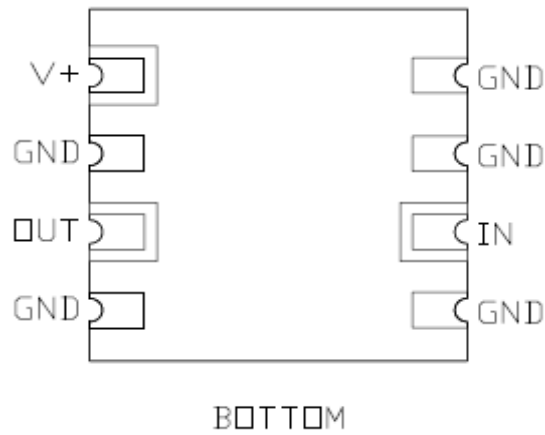
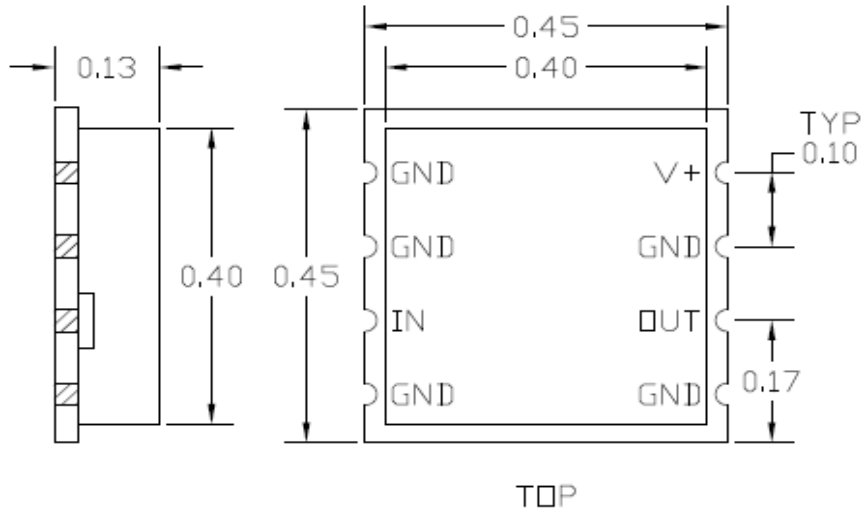
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	- 20°C		70°C	°C
Storage Temperature	Tstg	- 40C		180°C	°C

3009 Old State Rd, Telford, PA 18969

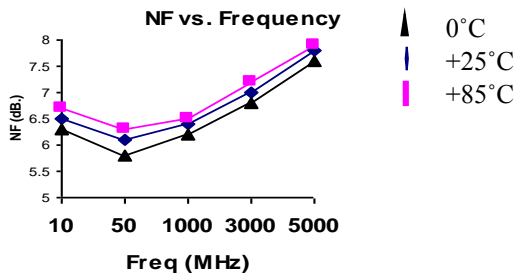
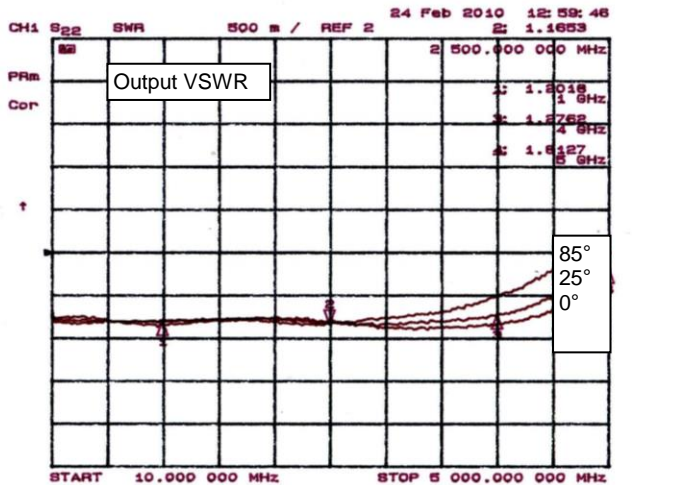
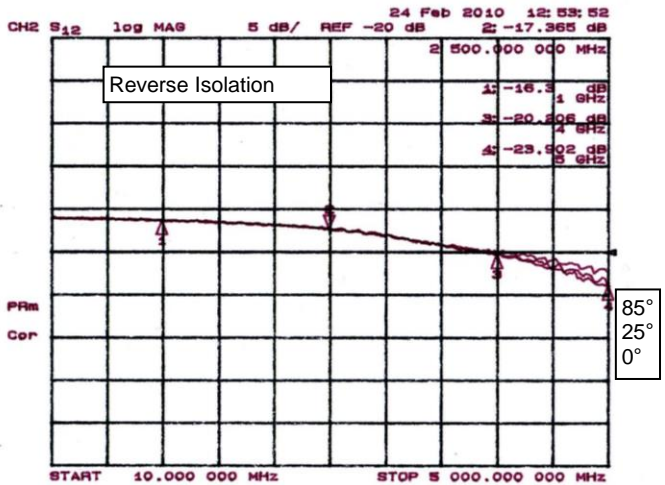
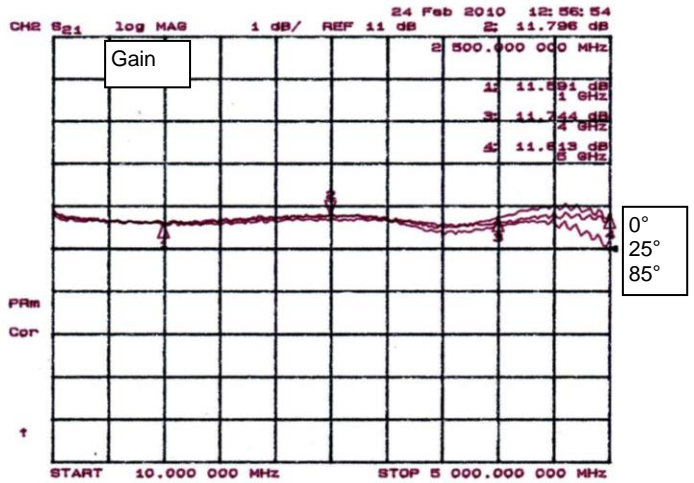
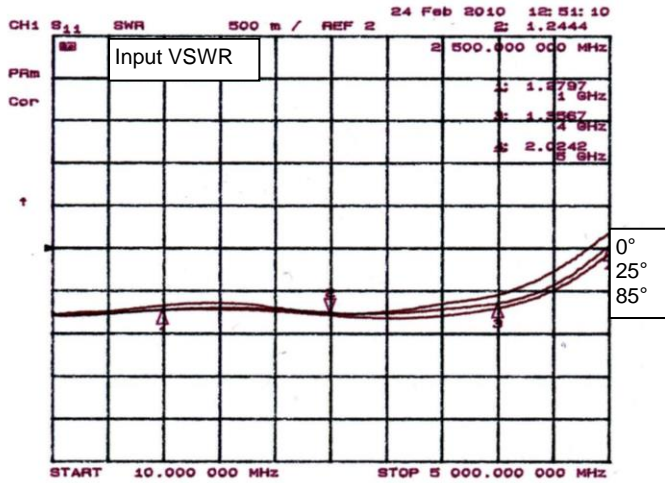
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Outline Drawing



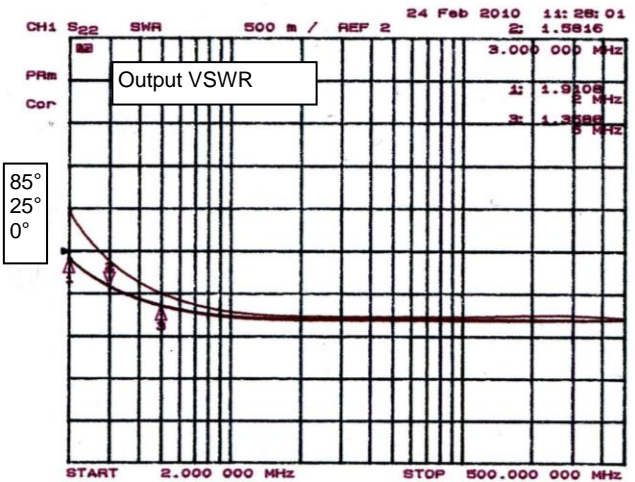
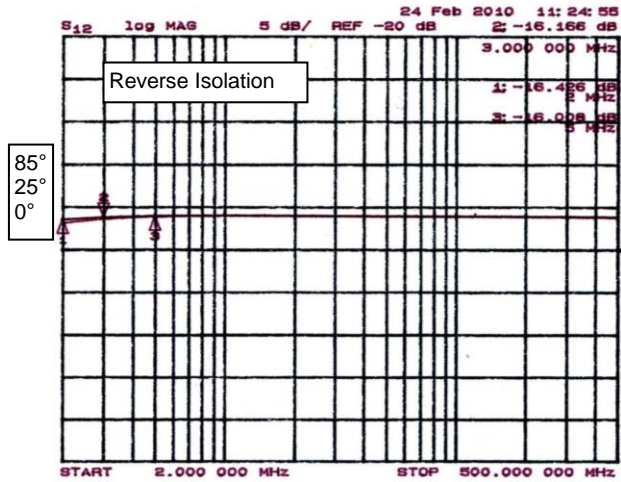
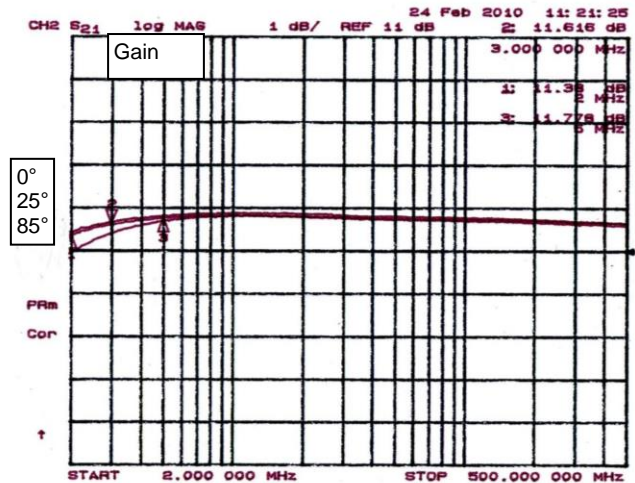
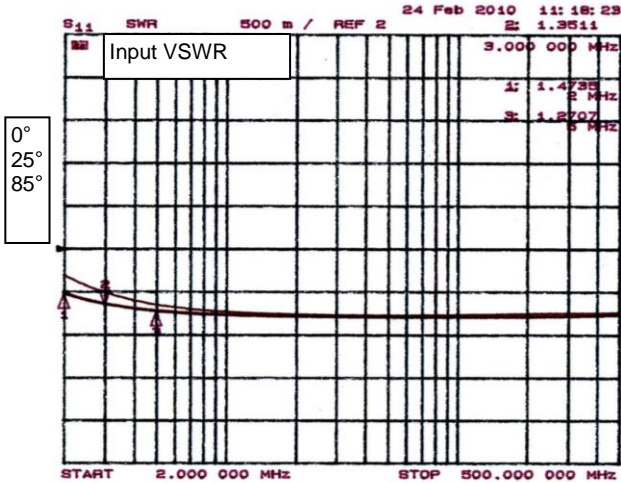
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FUNCTIONAL BLOCK DIAGRAM

