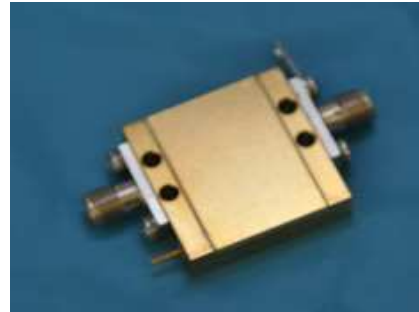


## MMIC GAIN BLOCK

- \* Wideband Operation : 200 - 3000 MHz
- \* Excellent Gain Flatness
- \* High Intercept Point
- \* Extremely Low Cost Gain Block
- \* 100% Tested For Stability

### APPLICATIONS:

- \* Mobile Infrastructure
- \* CATV / DBS
- \* W-LAN / ISM
- \* WI-FI
- \* RFID
- \* Fixed Wireless
- \* All Purpose Gain Block, Driver Amp



### ELECTRICAL SPECIFICATION @ VDD= +12 VDC, Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	200		3000	MHz
Gain	G	9	10		dB
Gain Flatness	$\Delta G$		$\pm 0.4$	$\pm 0.75$	dB
Power Output	P1dB	21	22		dBm
Return Loss in/out	S11/S22		1.6:1	2.0:1	Ratio
3rd Order Intermodulation (2 Tones @ 10 dBm)	IP3	36	40		dBm
2nd Order Intermodulation (2 Tones @ 10 dBm)	IP2	52	60		dBm
Noise Figure	NF		4.5	5.5	dB
Operating Voltage	Vdc		12		Volts
Operating Current	Id		150		mA

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	1.0 x 1.0 x .375		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Feedthru Pin		

### PROTECTIONS

	Max	
RF Input Power	20	dBm
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

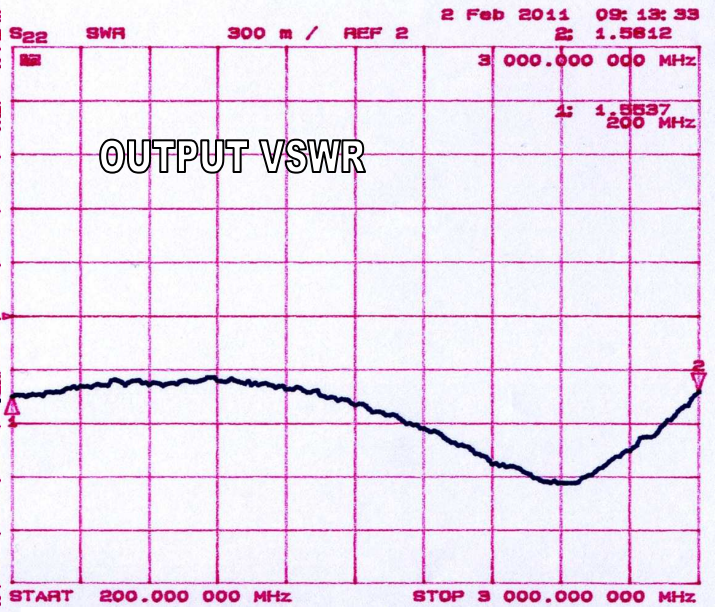
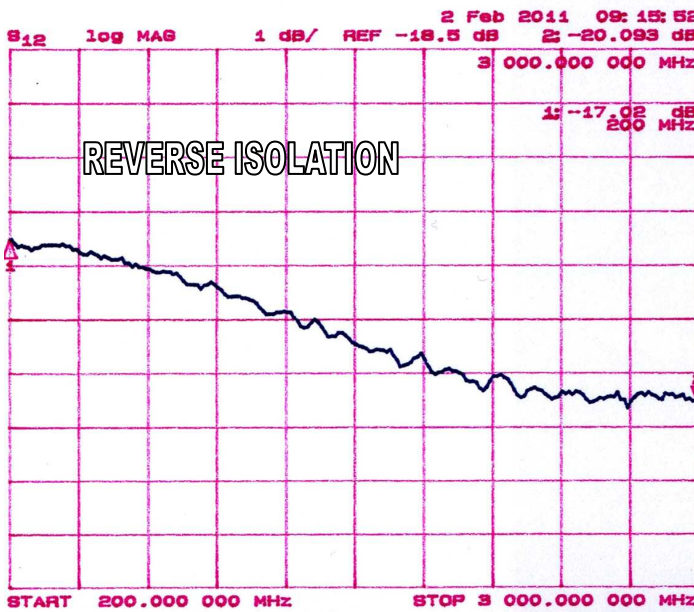
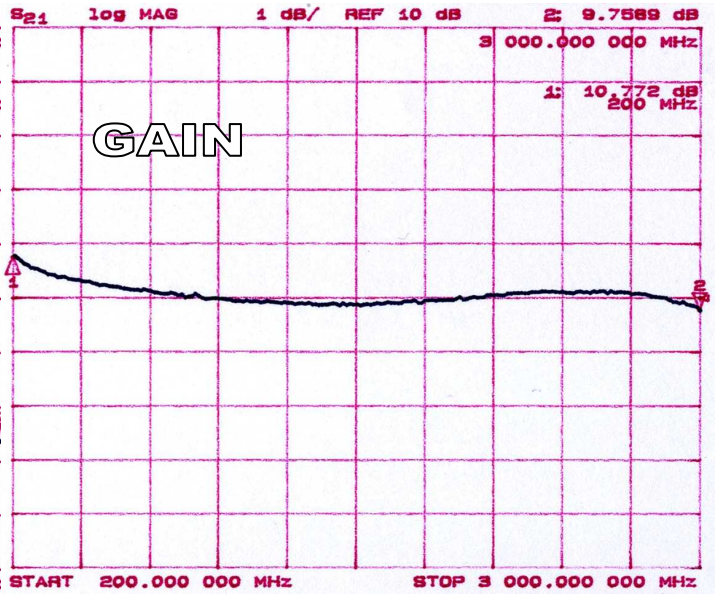
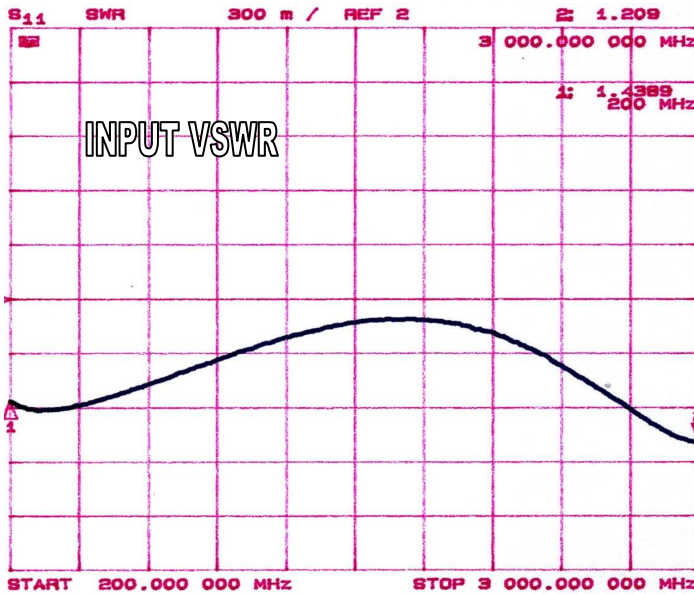
### ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		150°C	°C

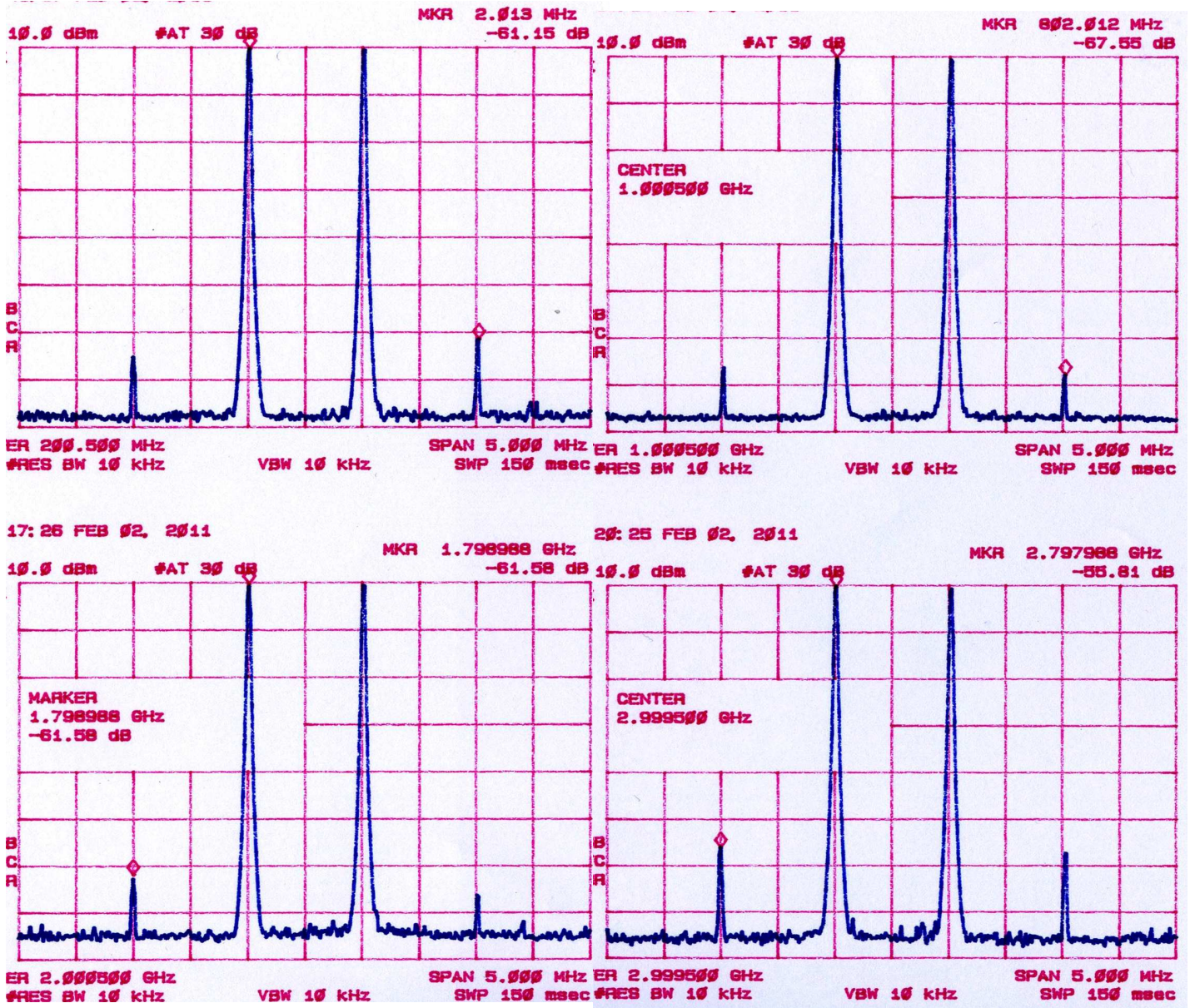
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Tel: 215-799-2561  
 Fax: 215-799-2563



3rd ORDER INTERMODULATION PRODUCTS



**Power output @ 1dB Compression**

200 Mhz	22.6 dBm
1000 Mhz	22.6 dBm
2000 Mhz	22.4 dBm
3000 Mhz	21.9 dBm

**Noise Figure**

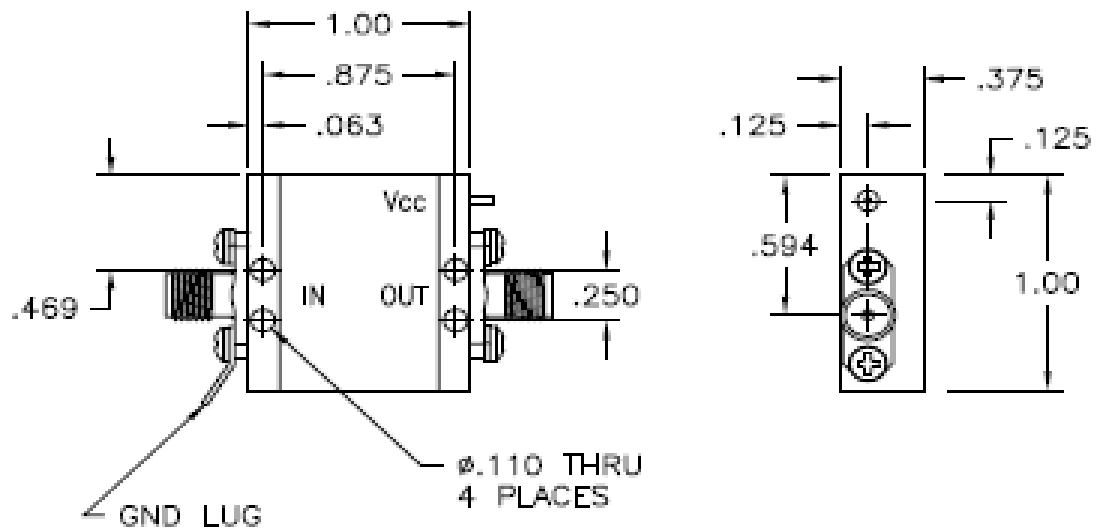
200 Mhz	4.0 dB
1000 Mhz	4.8 dB
2000 Mhz	4.8 dB
3000 Mhz	5.3 dB

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OUTLINE DRAWING



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