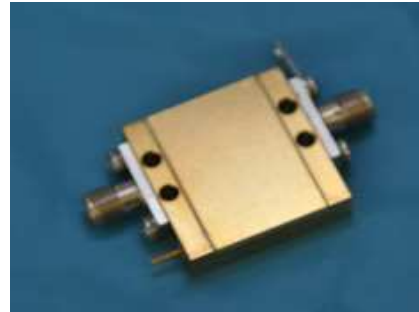


## MMIC GAIN BLOCK

- \* Wideband Operation : 100 - 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	100		3000	MHz
Gain	G	11	12		dB
Gain Flatness	Δ G		±0.4	±0.75	dB
Power Output	P1dB	24	26		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	55	60		dBm
Noise Figure	NF		4	5.5	dB
Operating Voltage	Vdc		12		Volts
Operating Current	Id		200		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	

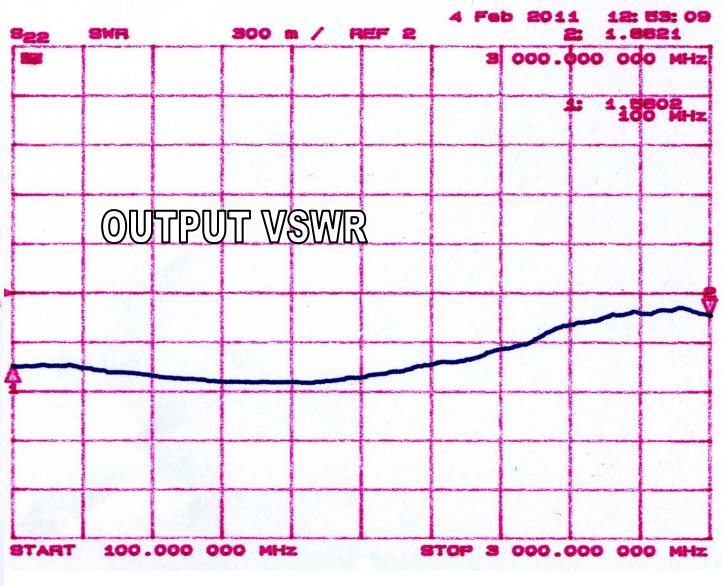
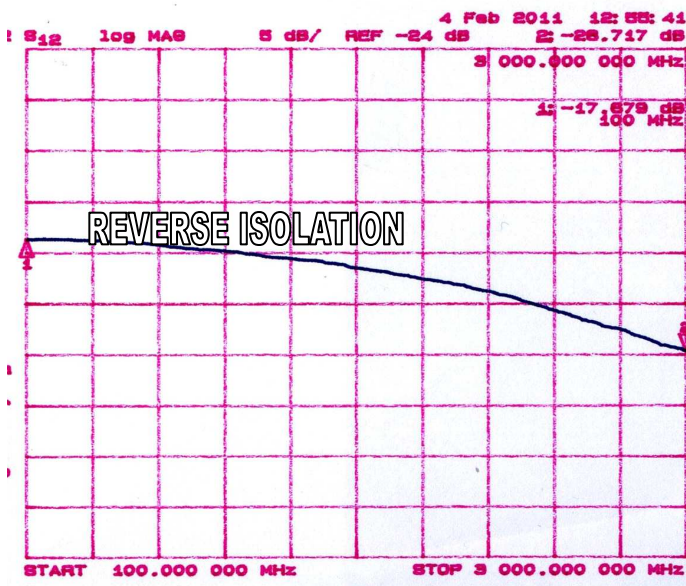
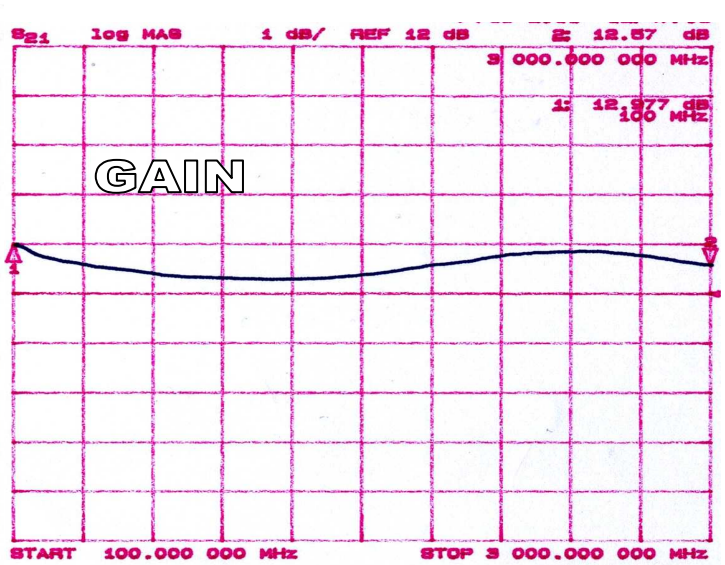
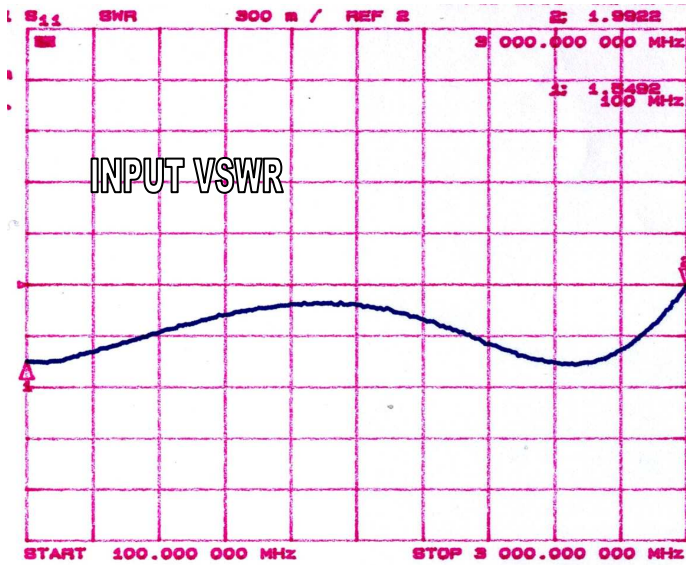
### ENVIRONMENTAL CHARACTERISTICS

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

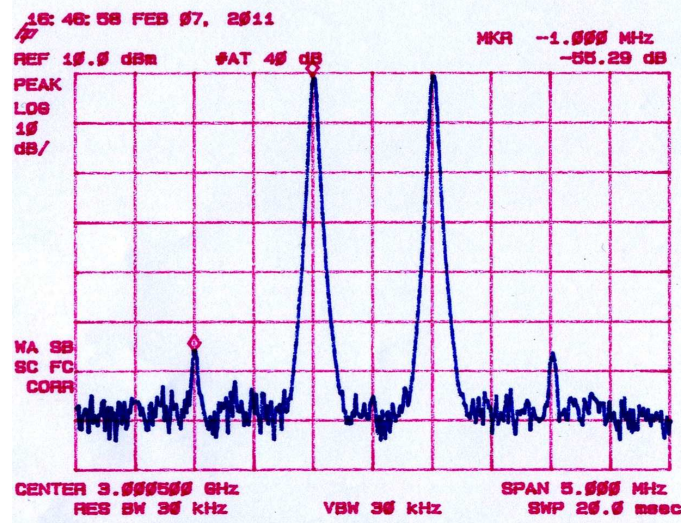
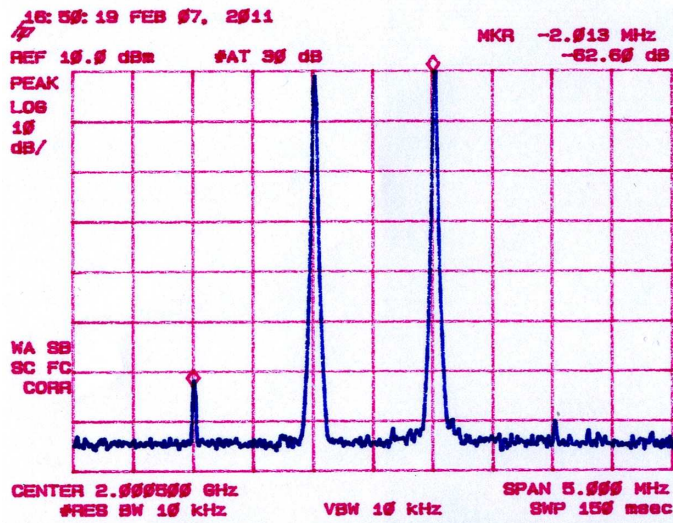
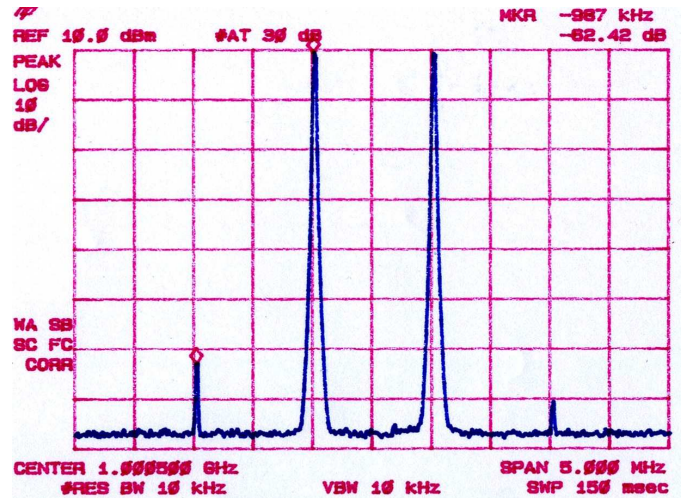
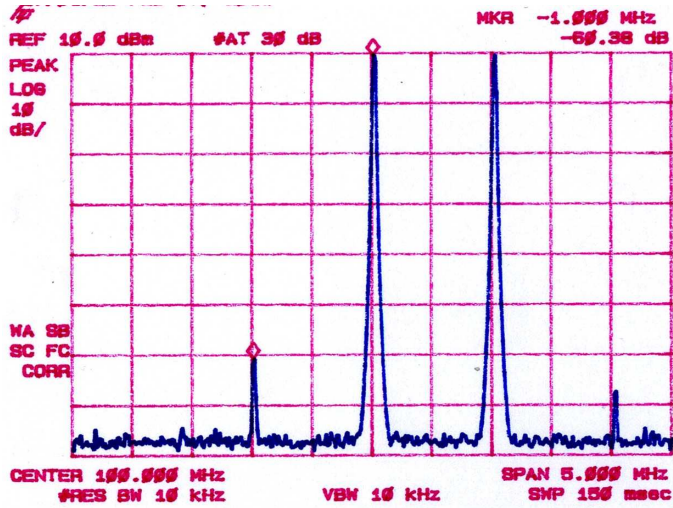
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Tel: 215-799-2561  
 Fax: 215-799-2563



3rd ORDER INTERMODULATION PRODUCTS



**Power output @ 1dB Compression**

100 Mhz	26.0 dBm
1000 Mhz	26.2 dBm
2000 Mhz	26.0 dBm
3000 Mhz	24.0 dBm

**Noise Figure**

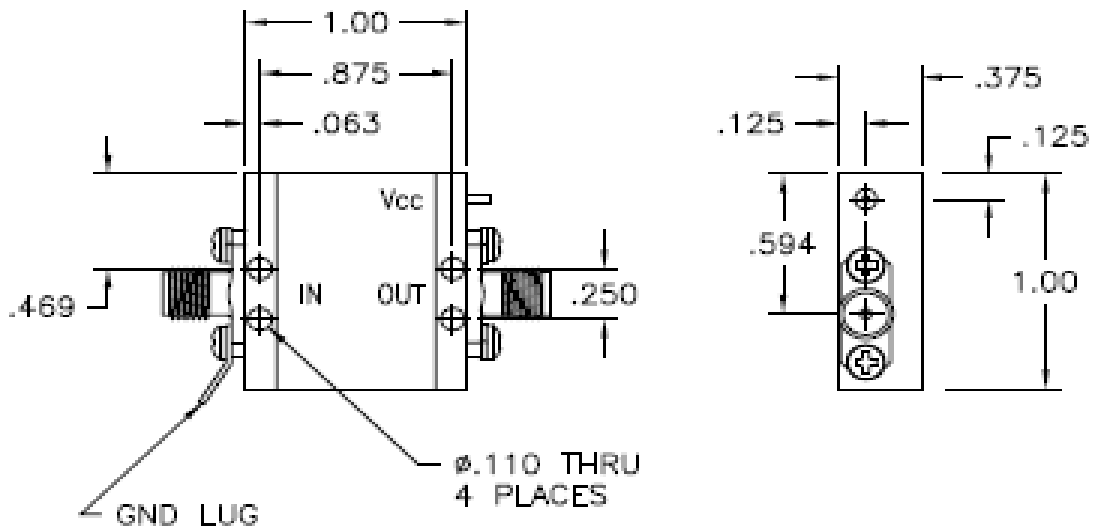
100 Mhz	3.0 dB
1000 Mhz	3.6 dB
2000 Mhz	4.5 dB
3000 Mhz	5.2 dB

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**OUTLINE DRAWING**



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