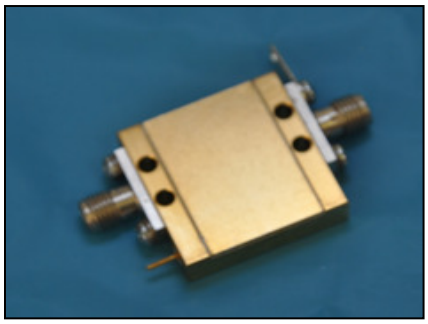
AMPLIFIER SOLUTIONS CORPORATION

ASC2244C

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℃, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	100		3000	MHz
Gain	G	9	10		dB
Gain Flatness	Δ G		±0.4	±0.75	dB
Power Output	P1dB	22	24		dBm
Return Loss in/out	S11/S22		1.6:1	2.0:1	Ratio
3rd Order Intermodulation (2 Tones @ 10 dBm)	IP3	30	38		dBm
2nd Order Intermodulation (2 Tones @ 10 dBm)	IP2	52	60		dBm
Noise Figure	NF		5	7	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		

ENVIROMENTAL CHARACTERISTICS

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

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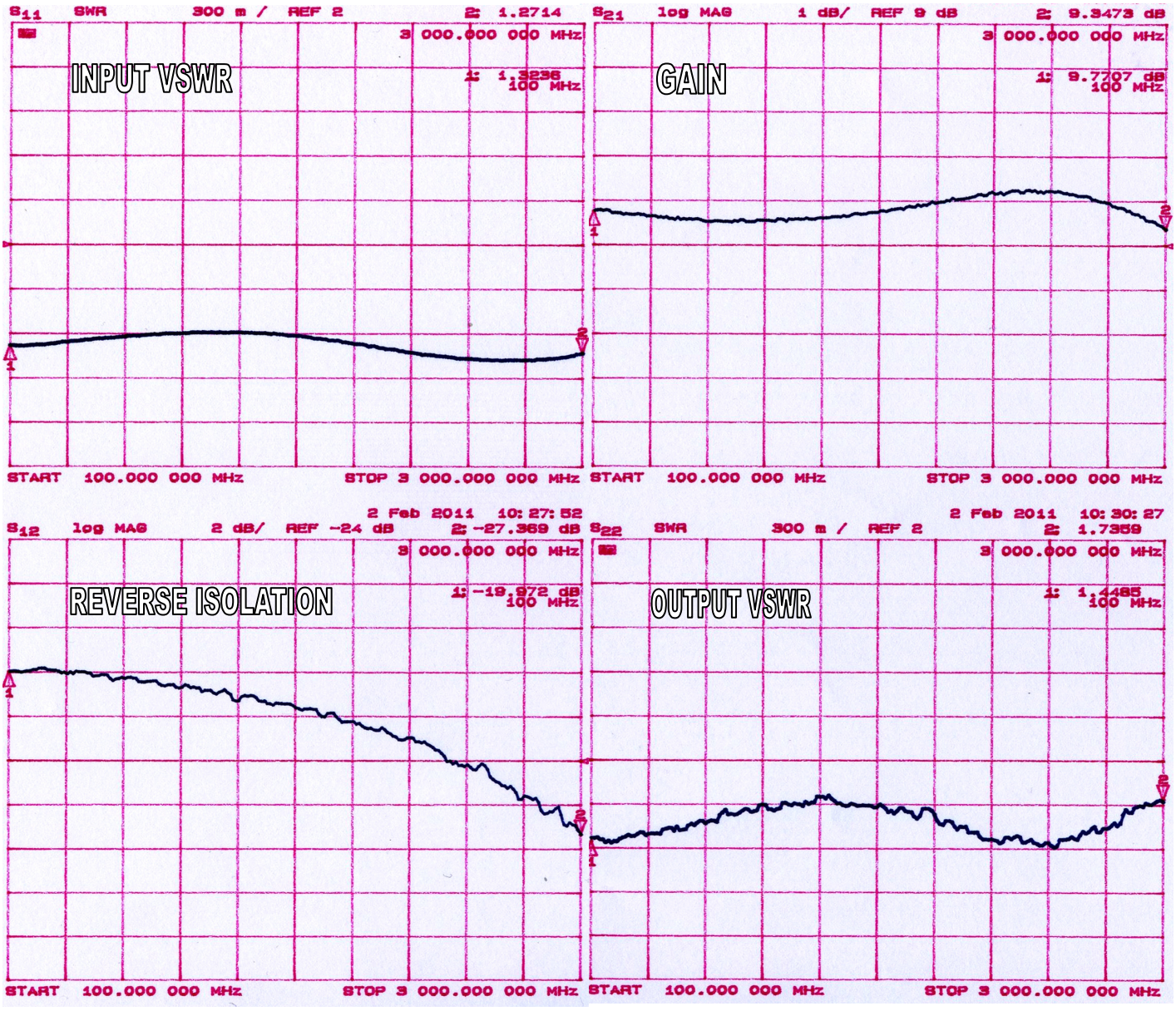

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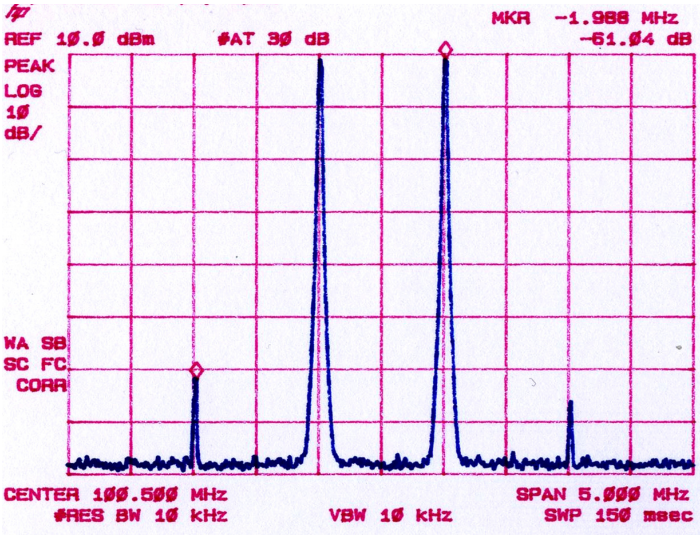
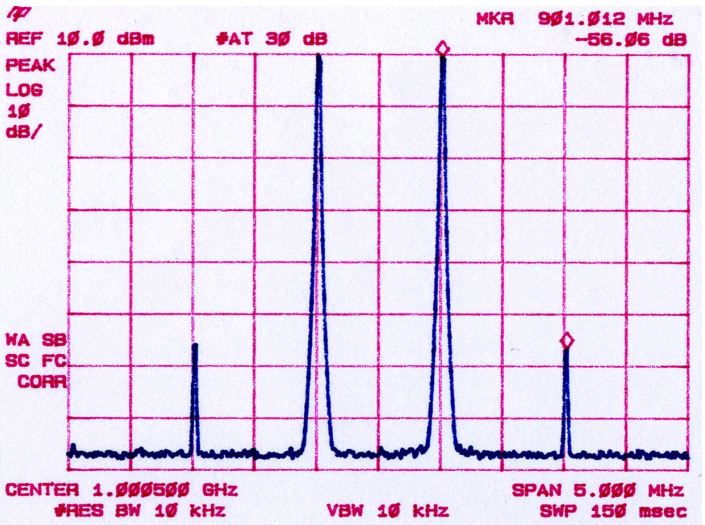
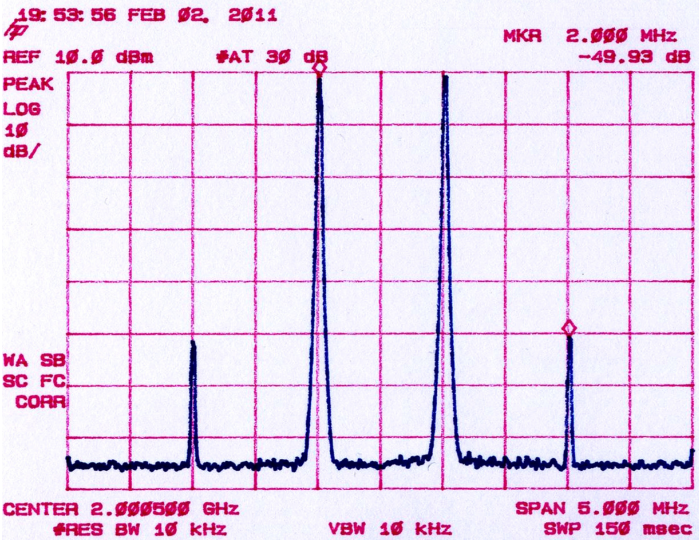
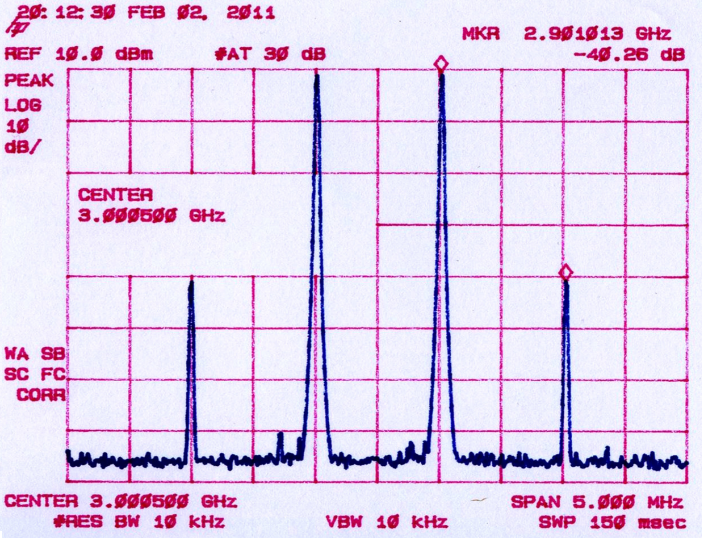
3rd ORDER INTERMODULATION PRODUCTS









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

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

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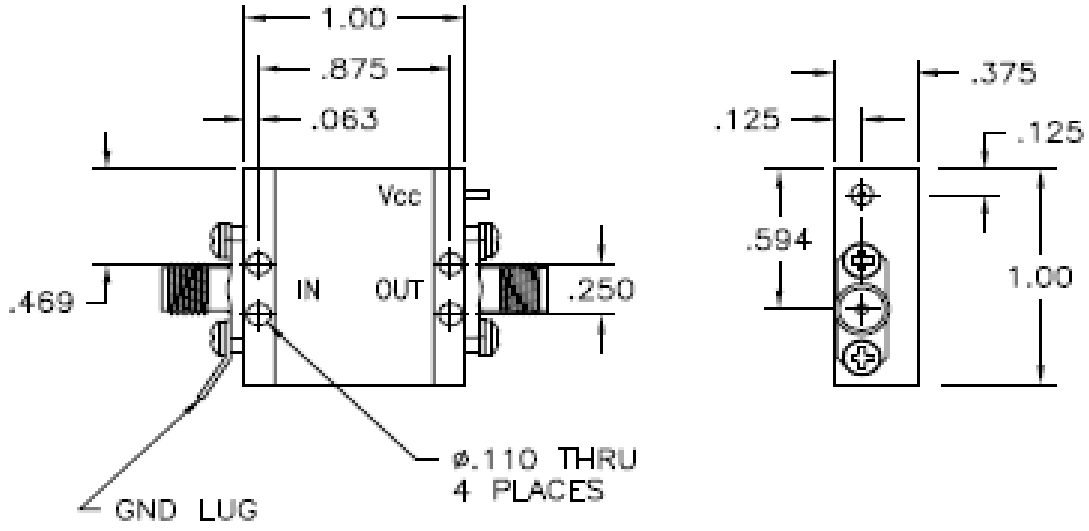
OUTLINE DRAWING



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