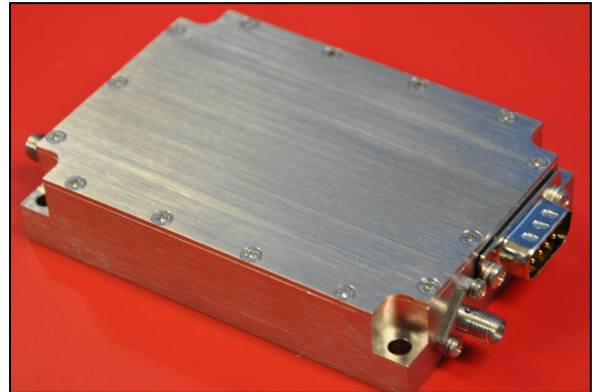


## WIDE BAND POWER AMP

- \* Wideband Operation : 1 - 500 MHz
- \* High Temp Shutdown Circuit
- \* Excellent Gain Flatness
- \* > 6 Watts Linear Power, 10 Watts Psat
- \* Disable/Mute Switch
- \* 100% Tested For Stability
- \* GaN Technology
- \* Single 28 Volt Supply

### APPLICATIONS:

- \* Mobile Radio
- \* CATV / DBS
- \* Jammers
- \* Instrumentation/Lab Amp
- \* All Purpose Power Amp



### ELECTRICAL SPECIFICATION @ VDD= +28 VDC, Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1		500	MHz
Gain	G	36	37		dB
Gain Flatness	Δ G		±0.7	±1.0	dB
Power Output	P1dB	37	40		dBm
Return Loss in/out	S11/S22		2.0:1	2.0:1/2.5:1	Ratio
3rd Order Intermodulation (2 Tones @ 20 dBm)	IP3	47	50		dBm
2nd Order Intermodulation (2 Tones @ 20 dBm)	IP2	54	58		dBm
Noise Figure	NF		9	10	dB
Operating Voltage (Pins 6, 7)	Vdc		28		Volts
Operating Current	Id		1250	1600	mA

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.5 x 3.5 x .85		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	DB-9		

### PROTECTIONS

	Max	
RF Input Power	10	dBm
Output Mute (Pin 5)	HIGH	TTL
Over Temp Shutdown	75	°C
Stability	Unconditional	

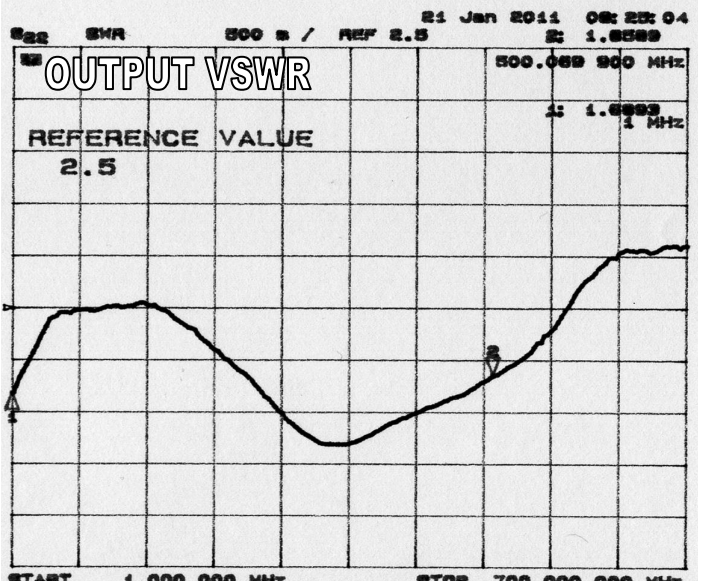
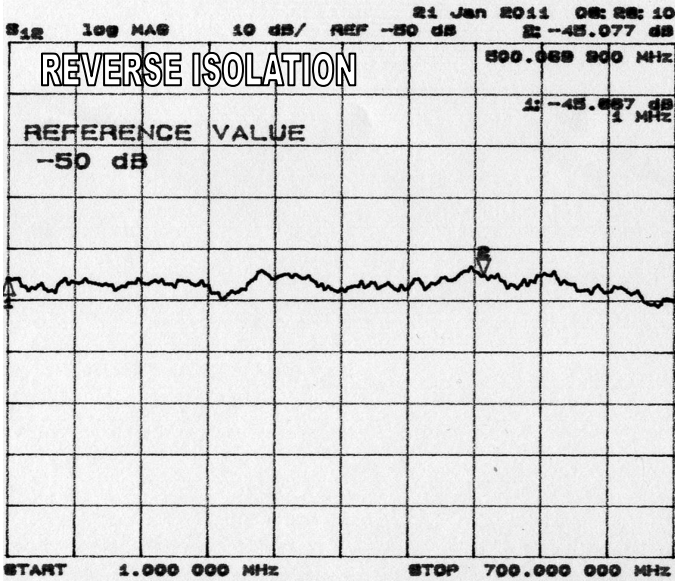
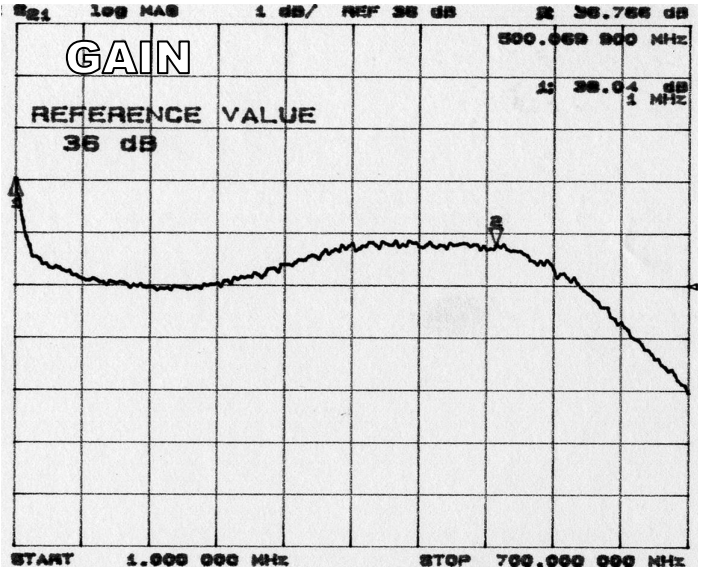
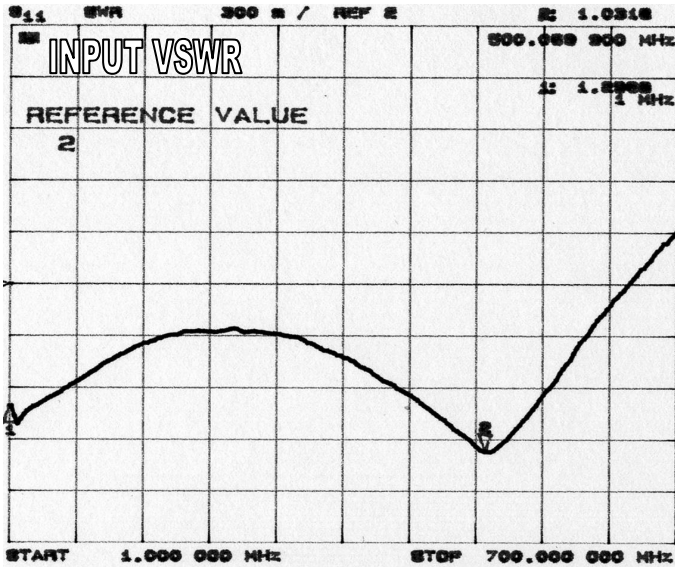
### ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	-20		70	°C
Storage Temperature	Tstg	-55		150°C	°C

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 Email: [sales@amplifiersolutions.com](mailto:sales@amplifiersolutions.com)

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

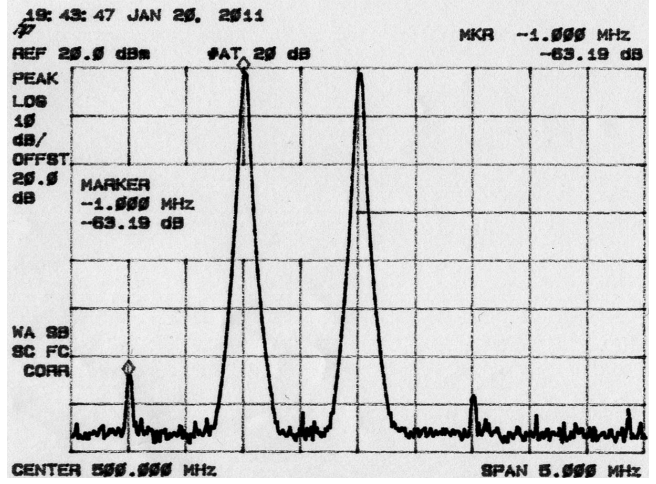
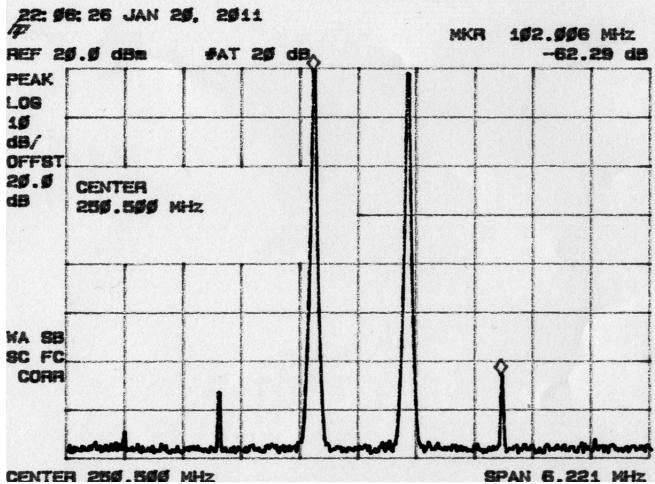
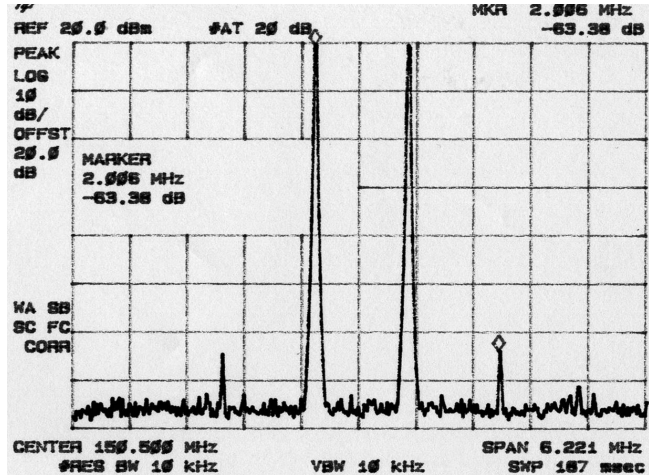
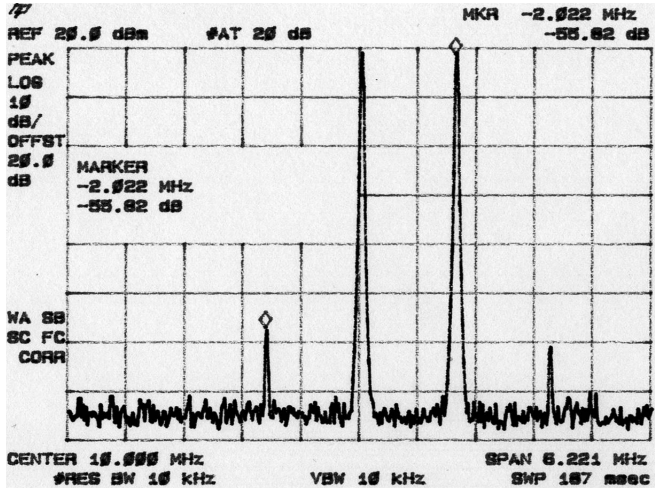


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3rd ORDER INTERMODULATION PRODUCTS



Power output @ 1dB Compression

1 Mhz	38.0 dBm
10 Mhz	38.6 dBm
100 Mhz	39.2 dBm
250 Mhz	39.0 dBm
500 Mhz	40.2 dBm

Psat

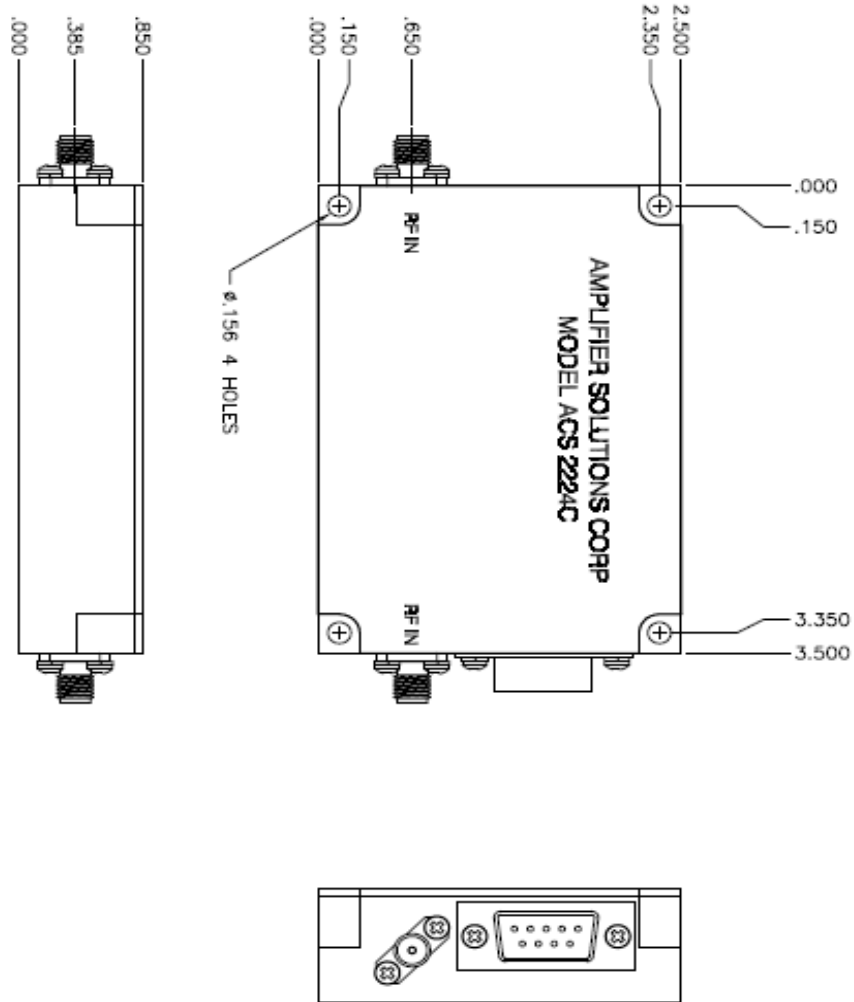
39.1 dBm
39.4 dBm
39.6 dBm
40.2 dBm
41.5 dBm

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**OUTLINE DRAWING**



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