

## Wide Band RF Amplifier

- \* Operating Frequency :0.3 - 3 GHz.
- \* Saturated Power : 20W Psat Typical
- \* Gain : 10 dB.
- \* Operation Up to 28 Volts <sup>1</sup>
- \* No external components required



**Description:** Ultra wideband operation, Fiber Drivers, Test Instrumentation, All Purpose Power Amp

### ELECTRICAL SPECIFICATION @ VDD= +28 VDC, -5VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	0.3		3	GHz.
Gain	G	8	10		dB.
Gain Flatness	Δ G		±1.0	±1.5	dB.
Power Added Efficiency	PAE		30		%
Power Output	Psat	40	43		dBm.
Return Loss in/out	S11/S22	2.5:1	2.0:1		Ratio
Operating Voltage <sup>1</sup>	Vdc		+28, -5		Volts
Quiescent Current	Idq		300		mA.

**Note 1: Also Available In A Single +30V Supply**

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2x1x0.50		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		

### PROTECTIONS

	Max	
RF Input Power	35	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

### ENVIROMENTAL CHARACTERISTICS

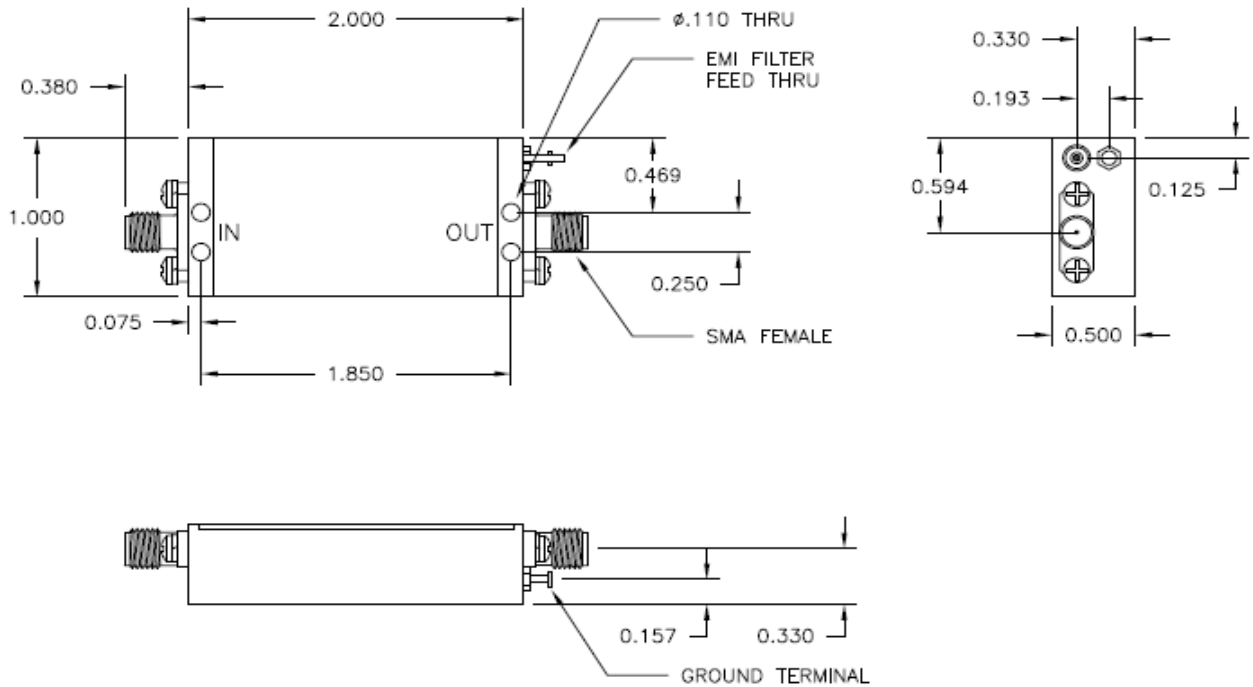
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	T <sub>c</sub>	0		75	°C
Storage Temperature	T <sub>stg</sub>	-55		125°C	°C

3009 Old State Road, Telford, PA 18969

Web: [www.amplifiersolutions.com](http://www.amplifiersolutions.com)  
 Email: [sales@amplifiersolutions.com](mailto:sales@amplifiersolutions.com)

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

# OUTLINE

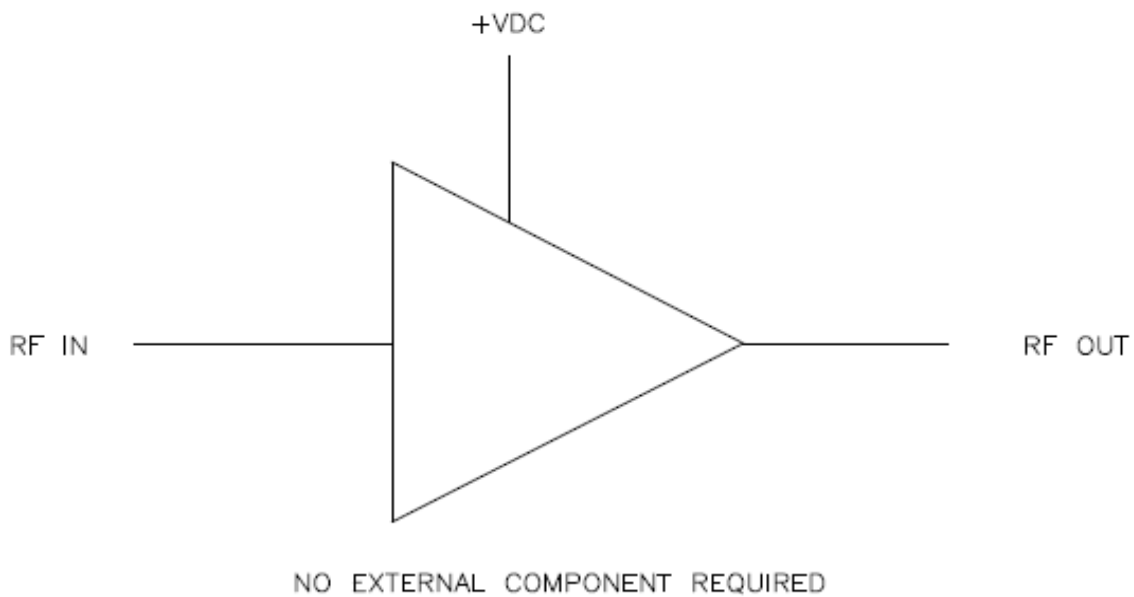


3009 Old State Road, Telford, PA 18969

Web: [www.amplifiersolutions.com](http://www.amplifiersolutions.com)  
Email: [sales@amplifiersolutions.com](mailto:sales@amplifiersolutions.com)

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

FUNCTIONAL BLOCK DIAGRAM



3009 Old State Road, Telford, PA 18969

Web: [www.amplifiersolutions.com](http://www.amplifiersolutions.com)  
Email: [sales@amplifiersolutions.com](mailto:sales@amplifiersolutions.com)

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