

Wide Band RF Amplifier

- * Operating Frequency :0.5-3 GHz.
- * Saturated Power : 10W Psat Typical
- * Gain : 11 dB.
- * Operation Up to 28 Volts
- * 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	0.5		3	GHz.
Gain	G	9	11		dB.
Gain Flatness	ΔG		± 1.0	± 2.0	dB.
Power Added Efficiency	PAE		30		%
Power Output	Psat	39	40		dBm.
Return Loss in/out	S11/S22	2.5:1	2.0:1		Ratio
Operating Voltage	Vdc		+28,-5		Volt
Operating Current Idq	Idq		200		mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2x1x0.5		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		

PROTECTIONS

	Max	
RF Input Power	30	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

ENVIROMENTAL CHARACTERISTICS

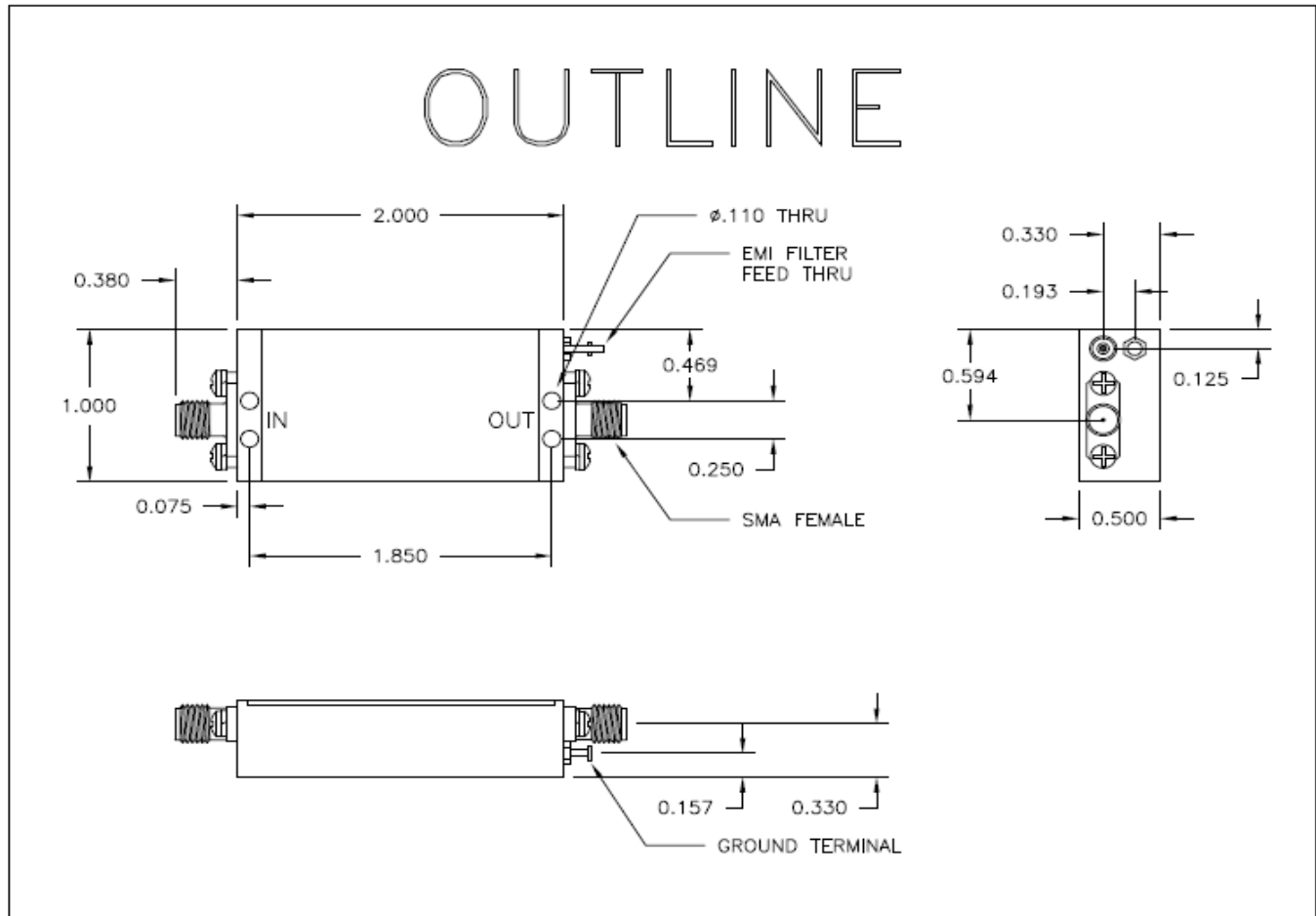
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		125°C	°C

3009 Old State Road, Telford, PA 18969

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Outline Drawing

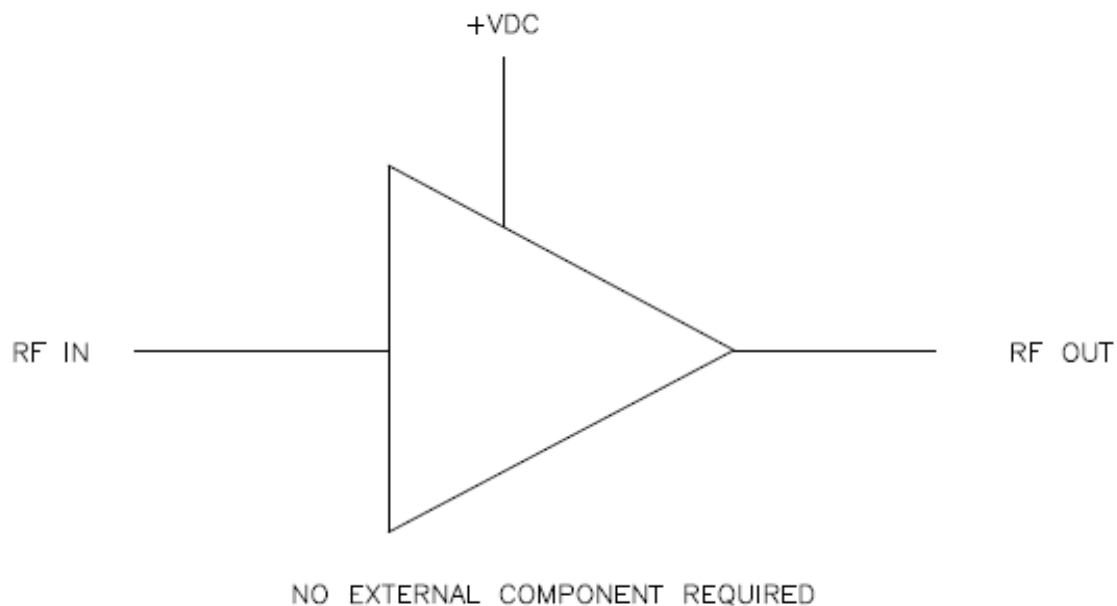


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FUNCTIONAL BLOCK DIAGRAM



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