

Wide Band RF Amplifier

- * Operating Frequency : 0.5-2.5 GHz.
- * Saturated Power : 16W Psat Typical
- * Gain : 28 dB.
- * Single, Regulated 30V Supply
- * Enable/Disable Switch
- * No external components required

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

ELECTRICAL SPECIFICATION @ VDD= +30 VDC Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	0.5		2.5	GHz.
Gain	G	26	28		dB.
Gain Flatness	ΔG		± 1.0	± 1.5	dB.
Power Added Efficiency	PAE		30		%
Power Output	Psat	40	42		dBm.
Power Output @ 3 dB compression	P3 dB	38	39		dBm.
Return Loss input	S11		2.5:1		Ratio
Operating Voltage	Vdc		30		Volts
Quiescent Current	Idq		600		mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	4.0 x 2.5 x1.0		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		

PROTECTIONS

	Max	
RF Input Power	19	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

ENVIROMENTAL CHARACTERISTICS

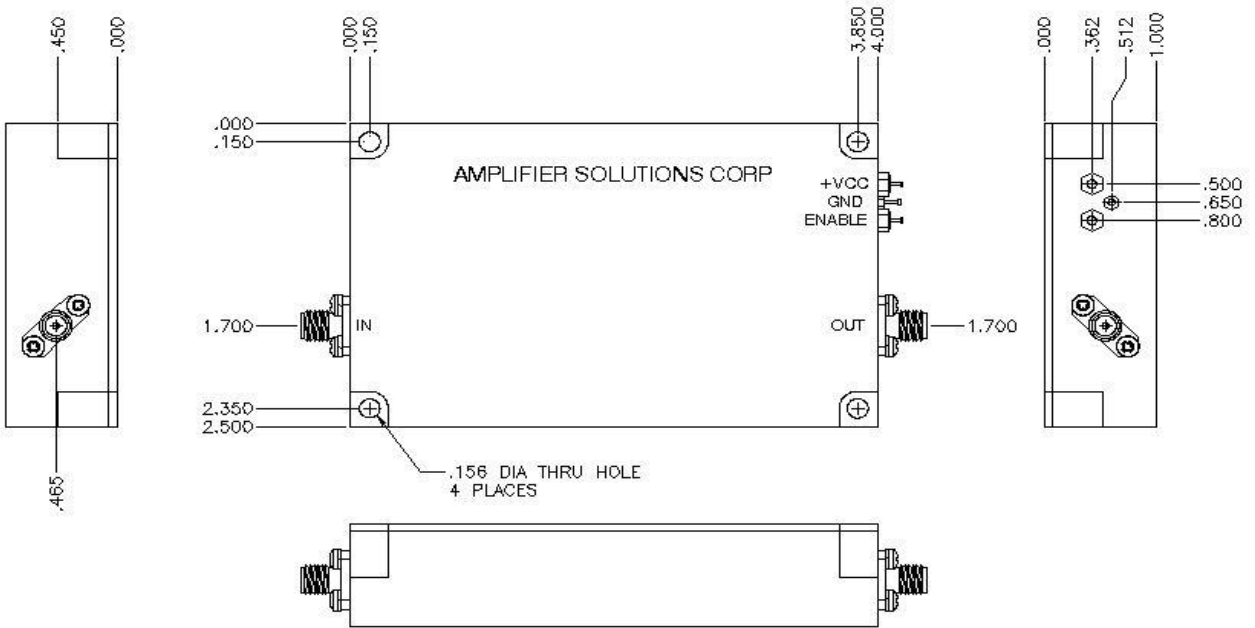
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		125°C	°C

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Outline

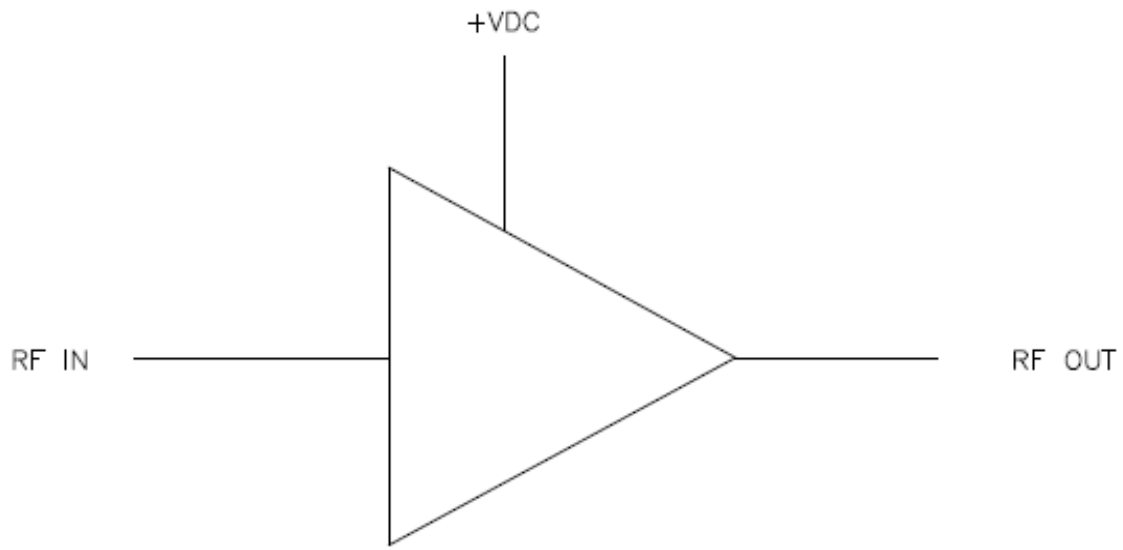


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FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED