

Low Noise RF Amplifier

- * Operating Frequency : 30-500 MHz.
- * Linear Power : +33 dBm.
- * Noise Figure : 1.7 dB.
- * Gain : 37.5 dB.
- * No external components required



ELECTRICAL SPECIFICATION @ VDD= +15VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	30		500	MHz.
Gain	G	36	37.5	39	dB.
Gain Flatness	ΔG		± 0.3	± 0.5	dB.
Reverse Isolation	S 12		-60		dB.
Noise Figure	NF		1.7	2	dB.
Power Output P1dB	P1dB	32	33		dBm.
Output 3rd Order Intercept Point	OIP3	43	45		dBm.
VSWR in/out	S11/S22		1.6 :1	2.0 :1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		750	850	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.5 x 1.0 x 0.5		in.
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		
Cooling	None		

PROTECTIONS

RF Input Power	+ 5 dBm Max	
Reverse Polarity Protection	Optional	
Load VSWR		
Stability	100%	

ENVIROMENTAL CHARACTERISTICS

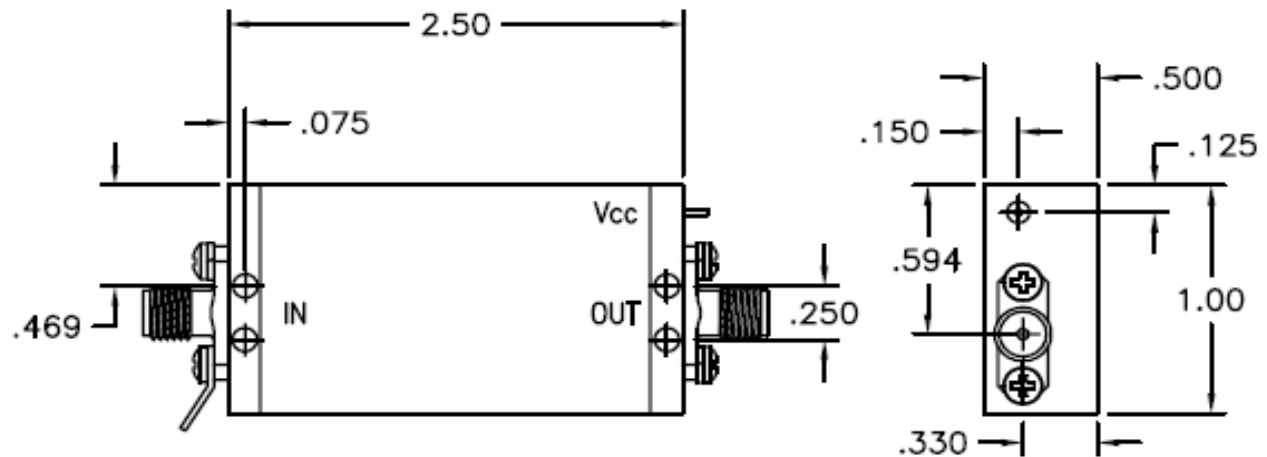
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0		50°C	°C
Storage Temperature	Tstg	-40		100°C	°C

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Outline Drawing

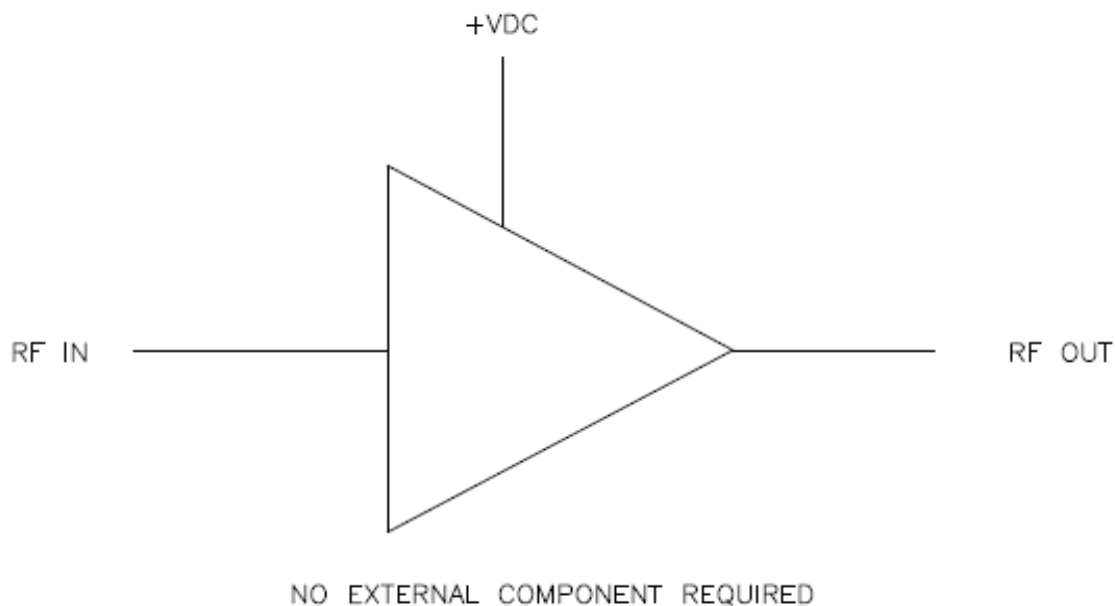


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FUNCTIONAL BLOCK DIAGRAM



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