

RF Amplifier

- * Operating Frequency : 300-500 MHz.
- * Gain : 31 dB.
- * Noise Figure : 1.0 dB.
- * P1dB : 15 dBm.
- * No external components required



ELECTRICAL SPECIFICATION @ VDD= +12 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	100		3000	MHz.
Gain	G	30	32		dB.
Gain Flatness	ΔG		± 1.0	± 1.5	dB.
Noise Figure	N.F.		4	5	dB.
Output Power	P 1dB	10	15		dBm.
Two Tone Intercept @ 15dBm output per tone	IP3		30		dBm.
VSWR in/out	S11/S22		2.0:1	2.2:1	Ratio
Operating Voltage	Vdc		12		Volt
Operating Current	Id		250	350	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2x1x0.5		
	SMA-F		
Cooling	None		
Monitor Connector	None		

PROTECTION

		Max	
RF Input Power		-10	dBm.
Reverse Polarity Protection	N/A		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

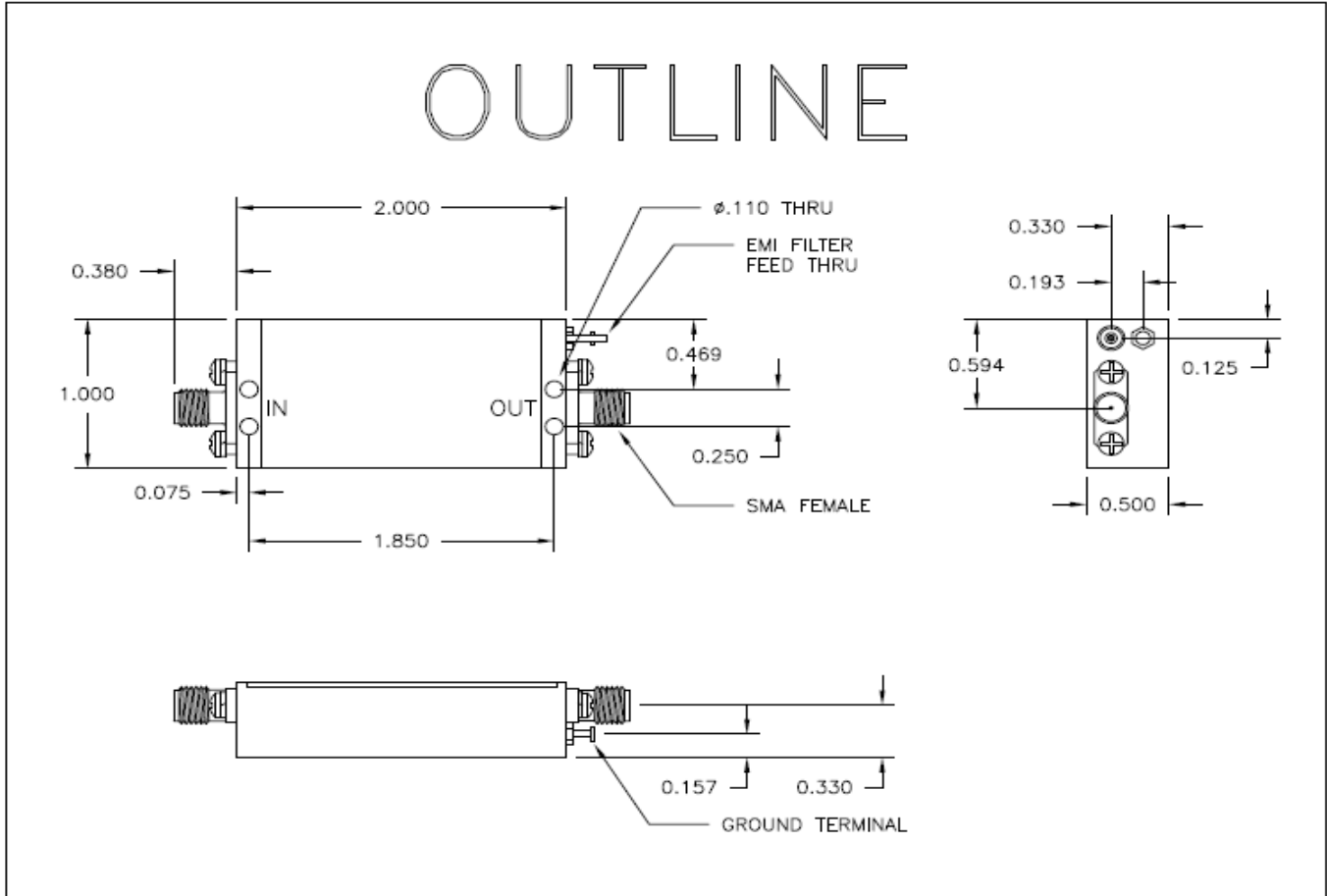
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-20C		70	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing

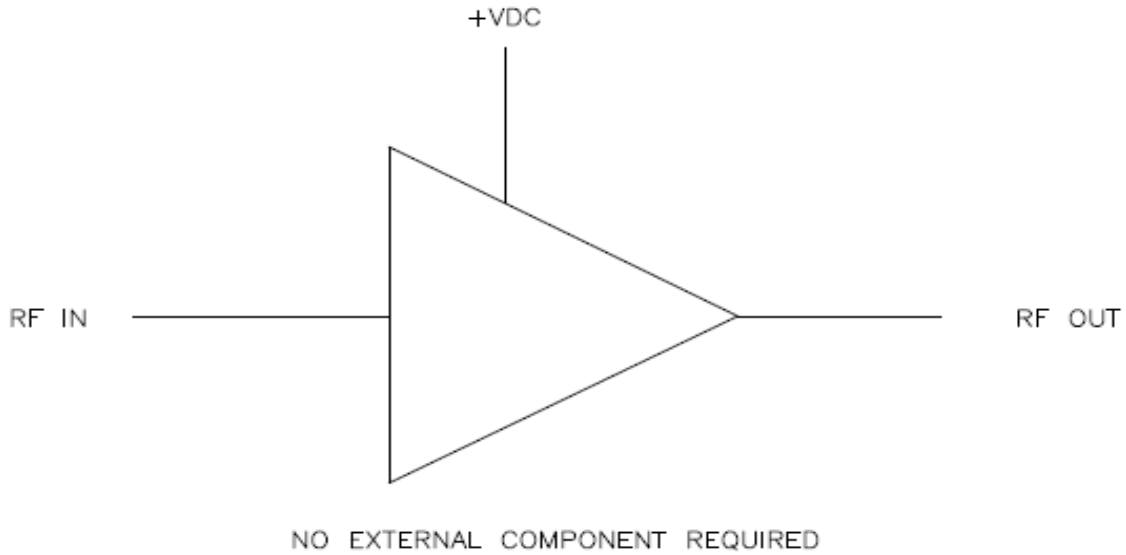


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FUNCTIONAL BLOCK DIAGRAM



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