

## RF Amplifier

- \* Operating Frequency : 20-1000 MHz.
- \* Gain : 20 dB. Typ.
- \* High IP3 42 dBm.
- \* No external components required

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	20		1000	MHz.
Gain	G	18	20	22	dB.
Gain Flatness	Δ G		±0.35	± 0.5	dB.
Noise Figure	N.F.		7	8	dB.
Reverse Isolation	R.I	38	40		dB.
Output Power	P 1dB	20	24		dBm.
Two Tone Intercept @ 10dBm output per tone	IP3	40	42		dBm.
IP2 @ P Out = + 10dBm	IP2	50	60		dBm.
VSWR in/out	S11/S22		1.5	1.6:1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		400		mA.

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	SMA Housing		
Cooling	None		
Monitor Connector	None		

### PROTECTION

Parameter	Limits	Units
RF Input Power	20	dBm.
Reverse Polarity Protection	N/A	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

### ENVIRONMENTAL CHARACTERISTICS

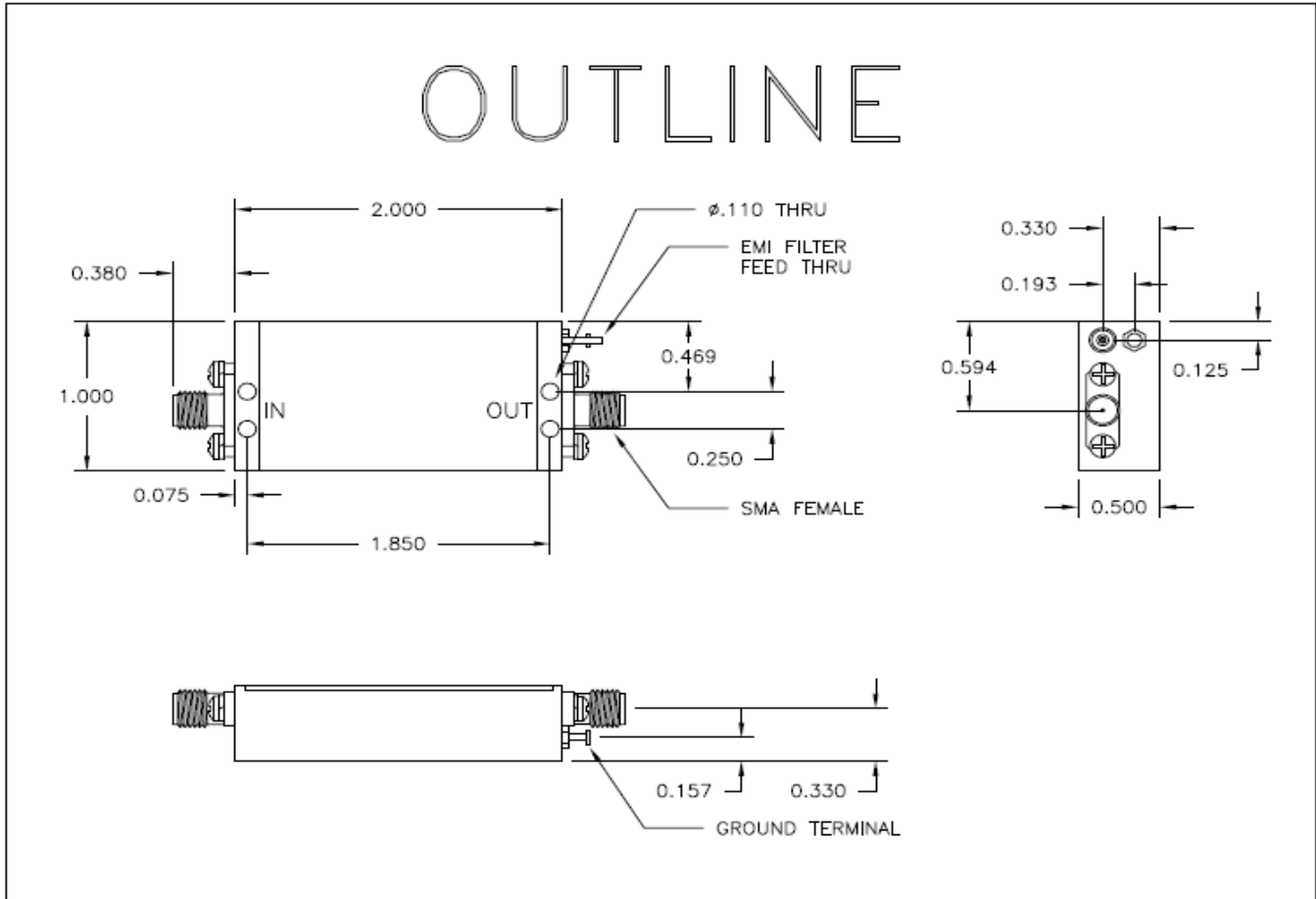
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0		50	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing

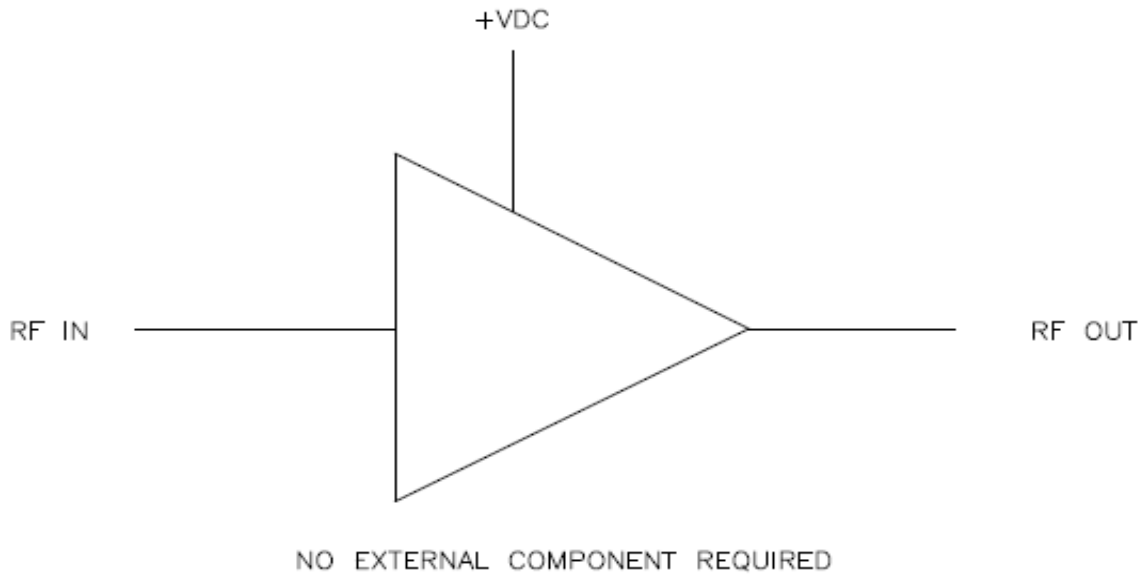


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FUNCTIONAL BLOCK DIAGRAM



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