

## RF Amplifier

- \* Operating Frequency : 1000-2000 MHz.
- \* Linear Power : 32 dbm.
- \* IP3 : 47 dBm.
- \* Gain : 37 dB. Typical
- \* NF : 3 dB.
- \* No external components required



### ELECTRICAL SPECIFICATION @ VDD= + 24 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1000		2000	MHz.
Gain	G	35	37		dB.
Gain Flatness	Δ G		±0.25	± 0.35	dB.
Noise Figure	N.F.		3	5	dB.
Output Power	P1dB	30	32		dBm.
IP3 @ +23dBm per tone	IP3	45	47		dBm.
IP2 @ +23dBm per tone	IP2	50	60		dBm.
VSWR in/out	S11/S22		1.7 :1	2.0:1	Ratio
Operating Voltage	Vdc		24		Volt
Operating Current	Id		620	700	mA.

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.5"x1"x0.5"		inches
RF Connectors IN	SMA-F		
RF Connectors OUT	SMA-F		
DC Connector	Filtercon		
Cooling	None		
Monitor Connector	None		

### PROTECTIONS

RF Input Power	+5 dbm.	Max	
Reverse Polarity Protection	Yes		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

### ENVIRONMENTAL CHARACTERISTICS

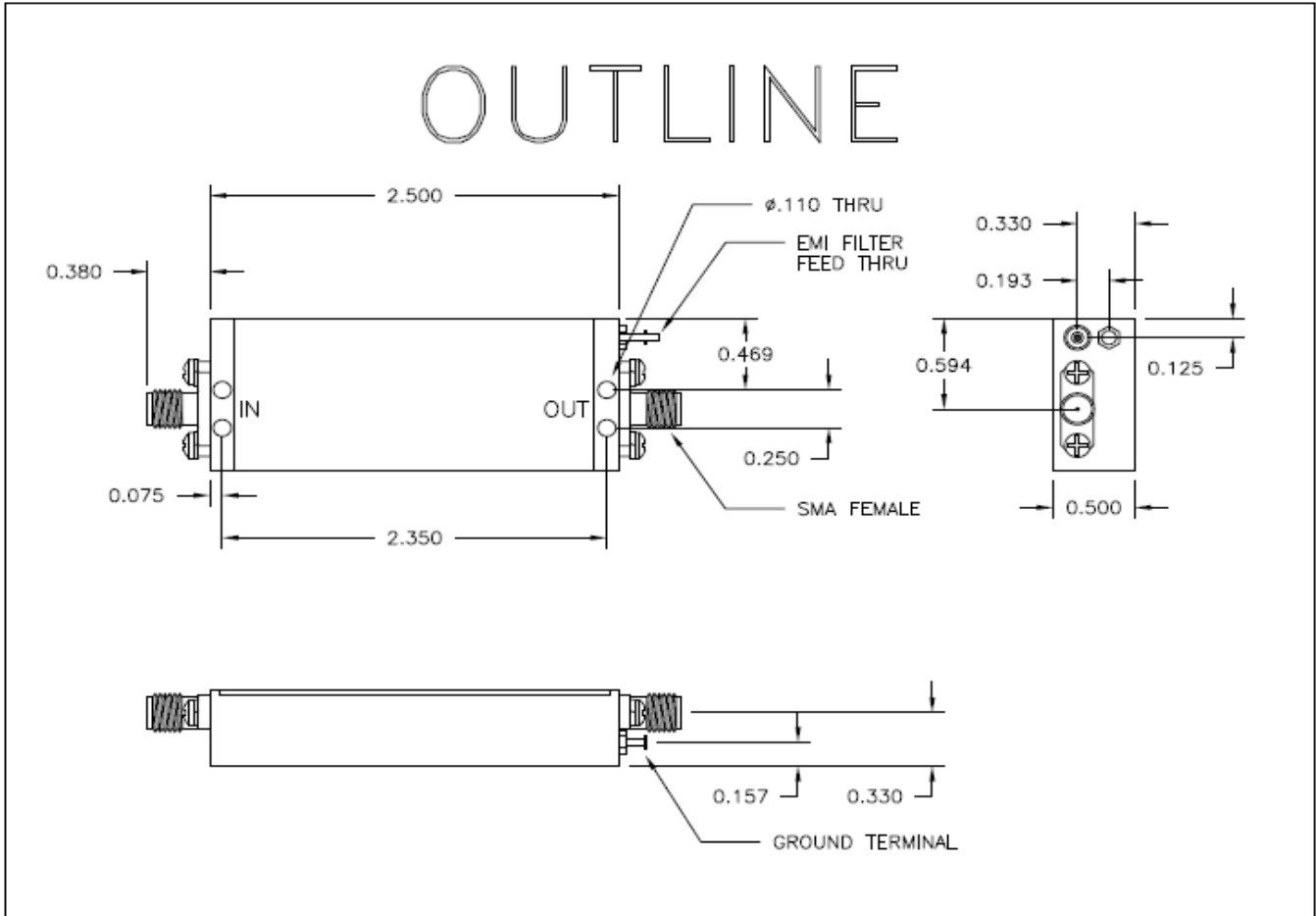
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0°C		70°C	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing

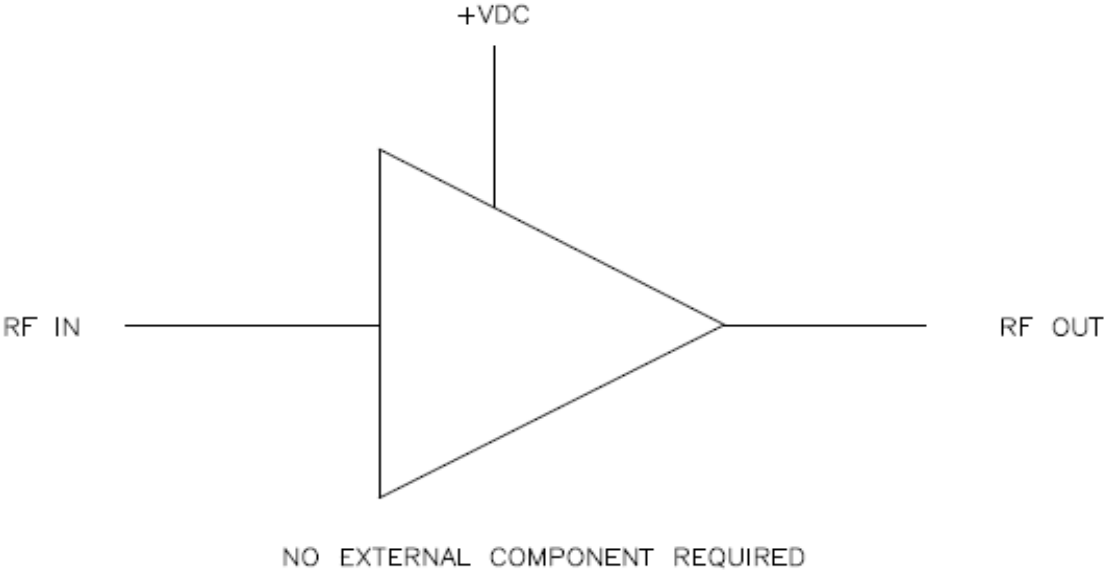


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FUNCTIONAL BLOCK DIAGRAM



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