

RF Amplifier

- * Operating Frequency : 1-300 MHz.
- * Gain : 34 dB.
- * High IP3 44 dBm.
- * No external components required

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1		300	MHz.
Gain	G	33	34		dB.
Gain Flatness	Δ G		±0.5	±0.75	dB.
Noise Figure	N.F.		3.9	4.7	dB.
Output Power	P 1dB	27	28.5		dBm.
Two Tone Intercept @ 15dBm output per tone	IP3		44		dBm.
IP2 @ P Out = + 15dBm	IP2		75		dBm.
VSWR in/out	S11/S22		1.6:1	1.9:1	Ratio
Operating Voltage	Vdc		12		Volt
Operating Current	Id		300		mA.

MECHANICAL SPECIFICATION

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

PROTECTION

	Max	
RF Input Power	30	dBm.
Reverse Polarity Protection	N/A	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

ENVIRONMENTAL CHARACTERISTICS

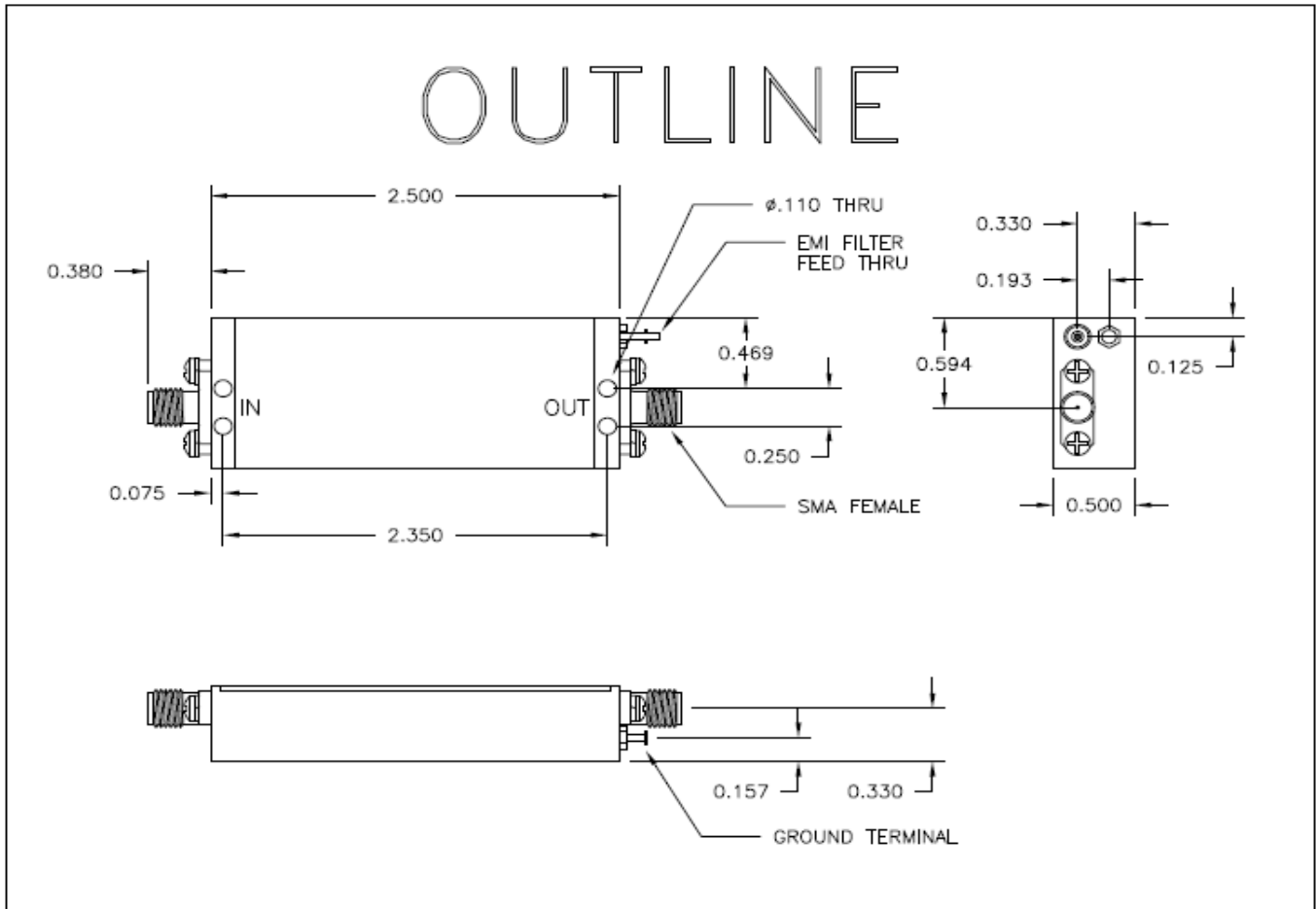
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-20		75	°C
Storage Temperature	Tstg	- 55C		120°C	°C

3009 Old State Road, Telford, PA 18969

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Outline Drawing

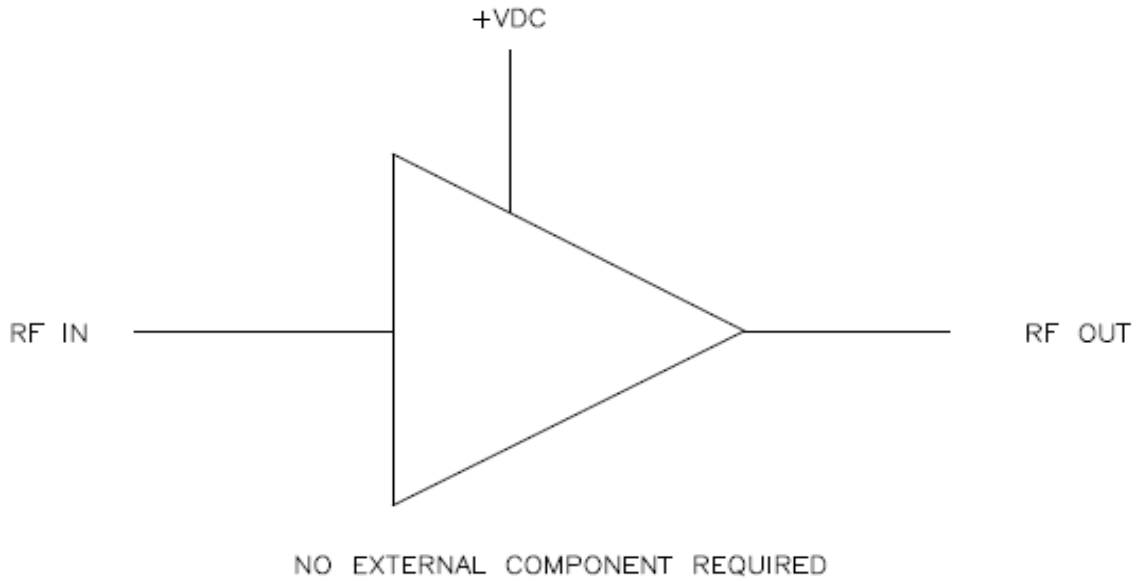


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FUNCTIONAL BLOCK DIAGRAM



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