

RF Amplifier

- * Operating Frequency : 20-500 MHz.
- * Gain : 16 dB.
- * High IP3 37 dBm.
- * High IP2 65 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		500	MHz.
Gain	G	15	16		dB.
Gain Flatness	Δ G		±0.30	±0.75	dB.
Noise Figure	N.F.		4.5	5	dB.
Output Power	P 1dB	23	24		dBm.
Two Tone Intercept @ 15dBm output per tone	IP3	35	37		dBm.
IP2 @ P Out = + 15dBm	IP2	60	65		dBm.
VSWR in/out	S11/S22		1.5:1	1.7:1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		160	170	mA.

MECHANICAL SPECIFICATION

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

PROTECTION

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

ENVIRONMENTAL CHARACTERISTICS

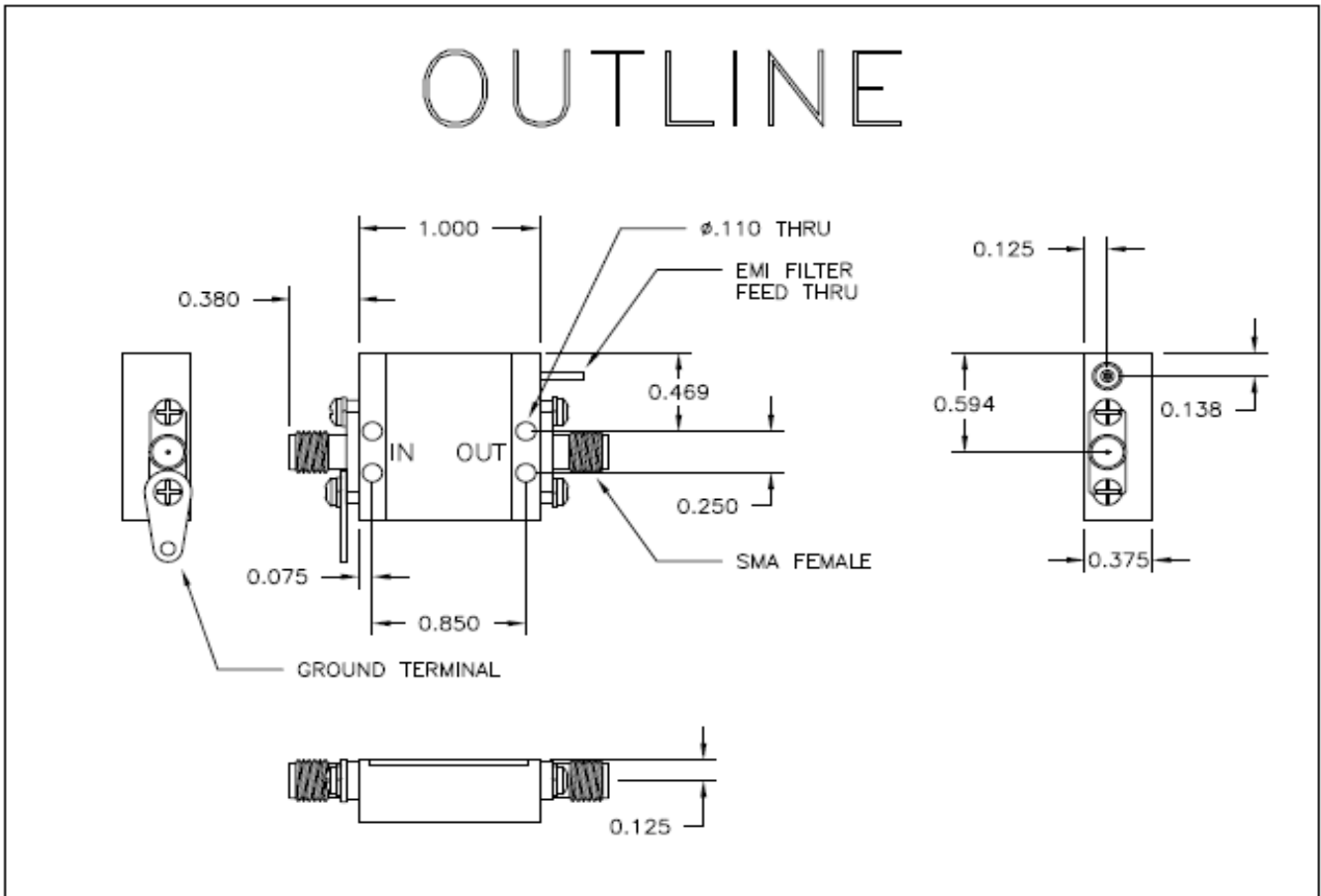
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0		70	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing

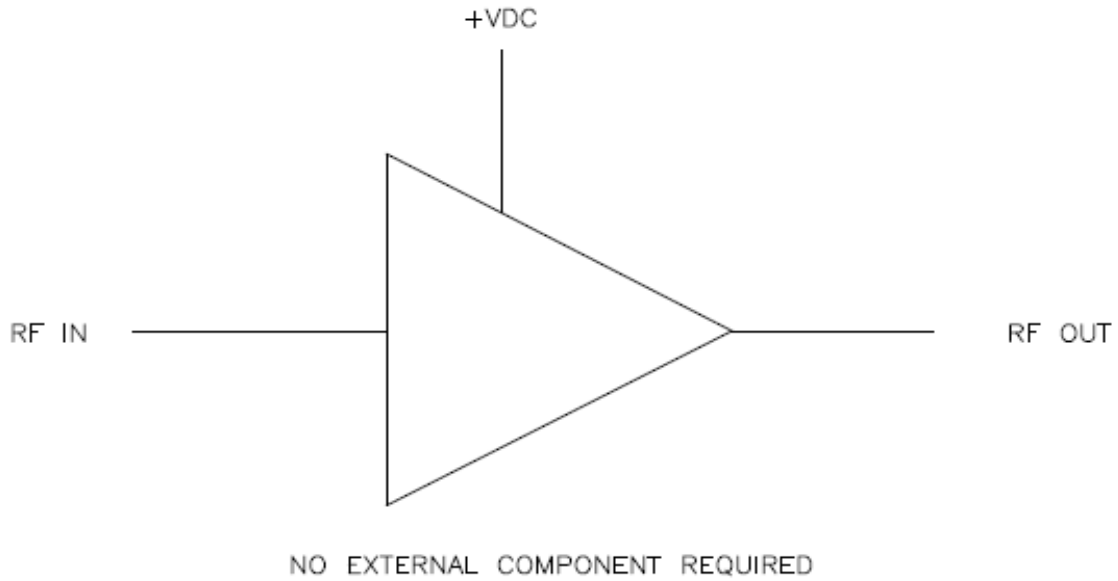


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FUNCTIONAL BLOCK DIAGRAM



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