

RF Amplifier

- * Operating Frequency :1-50 MHz.
- * Linear Power : +29 dBm.
- * Saturated Power : +32 dBm.
- * Noise Figure : 3.5 dB.
- * Gain : 19 dB.
- * No external components required



Description: Designed for linear application in the 1-50MHz range. This amplifier utilizes bi-polar transistors that provide high gain, wide dynamic range and excellent 2nd & 3rd OIP.
Suggested applications: Multicarrier, Pulse, AM&FM modulation

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

Parameter	Symbol	Min	Type	Max	Unit
Operating Frequency	BW	1		50	MHz.
Gain	G	17	19		dB.
Gain Flatness	Δ G		±0.25	± 0.5	dB.
Noise Figure	NF		3.5	5	dB.
Power Output P1dB	P1dB	28	29		dBm.
Output 3rd Order Intercept Point	OIP3	43	46		dBm.
Output 2nd Order Intercept Point	OIP2	85	90		dBm.
VSWR in/out	S11/S22		1.4 :1	1.6 :1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		200	220	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	1.0 x 1.0 x 0.375		In.
RF Connectors IN/OUT	SMA-F Field Replaceable		
DC Connector	Filtered Solder Feed Thru		
Cooling	none		

PROTECTIONS

RF Input Power	18 dBm.	Max	
Reverse Polarity Protection	Option		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

ENVIROMENTAL CHARACTERISTICS

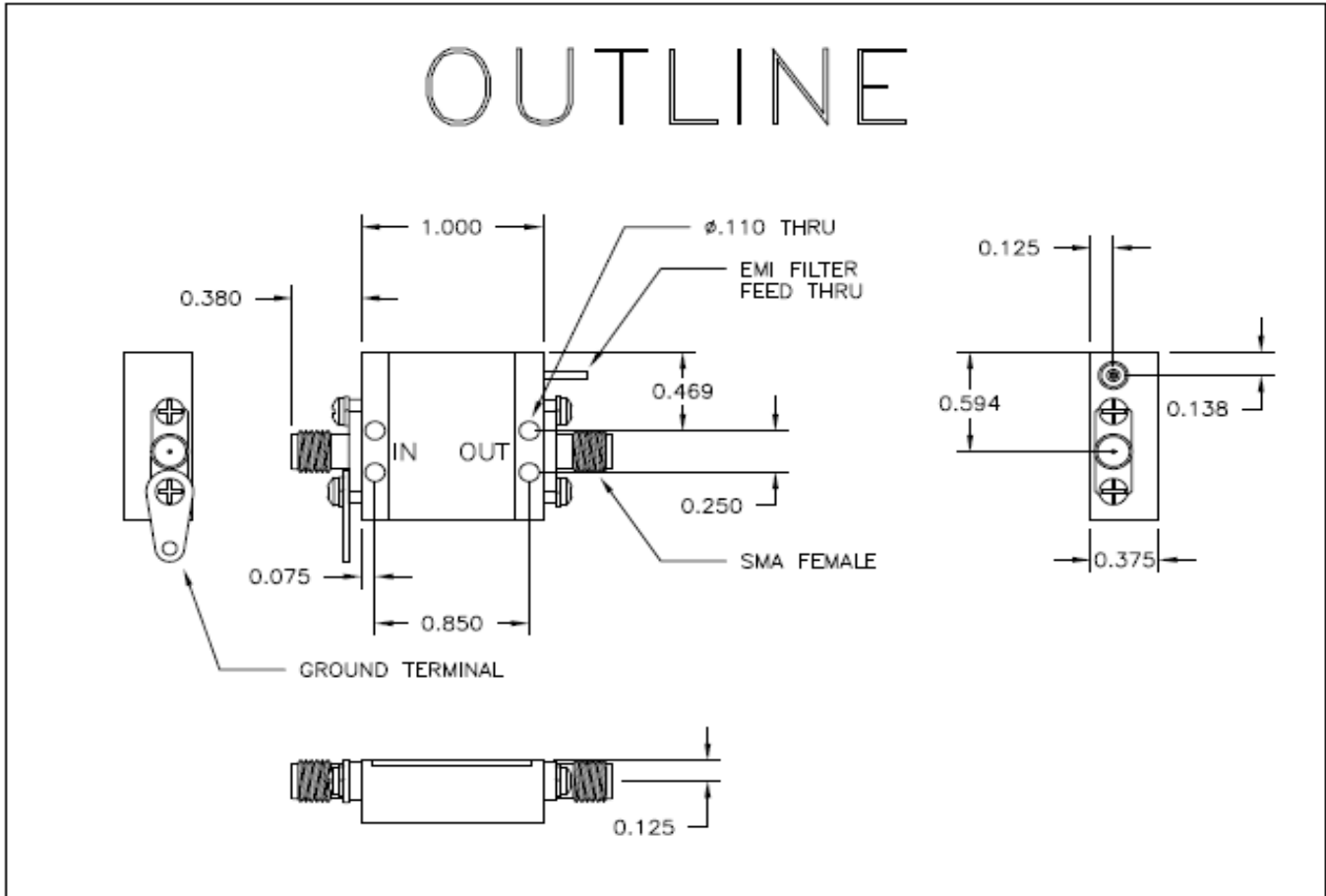
Parameter	Symbol	Min.	Type.	Max.	Units
Operating Case Temperature	Tc	0°C		70°C	°C
Storage Temperature	Tstg	- 40C		120°C	°C

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Outline Drawing



FUNCTIONAL BLOCK DIAGRAM

