

RF Amplifier

- * Operating Frequency : 1200-1800 MHz.
- * Gain : 37 dB.
- * NF: 0.6 dB.
- * P1dB: 15 dBm.
- * No external components required

ELECTRICAL SPECIFICATION @ VDD= +5 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1200		1800	MHz.
Gain	G	35	37	40	dB.
Gain Flatness	Δ G		±0.75	±1.0	dB.
Noise Figure	N.F.		0.6	0.8	dB.
Output Power	P 1dB	10	15		dBm.
VSWR in/out	S11/S22		1.6:1	1.75:1	Ratio
Operating Voltage	Vdc		5		Volt
Operating Current	Id		150	200	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	1.175(L) x 0.575(W) x 0.20(H)		
Hermetic Sealing	YES		
Cooling	None		
In/Out Connectors	SMA-F		

PROTECTION

		Max	
RF Input Power		-15	dBm.
Reverse Polarity Protection	N/A		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

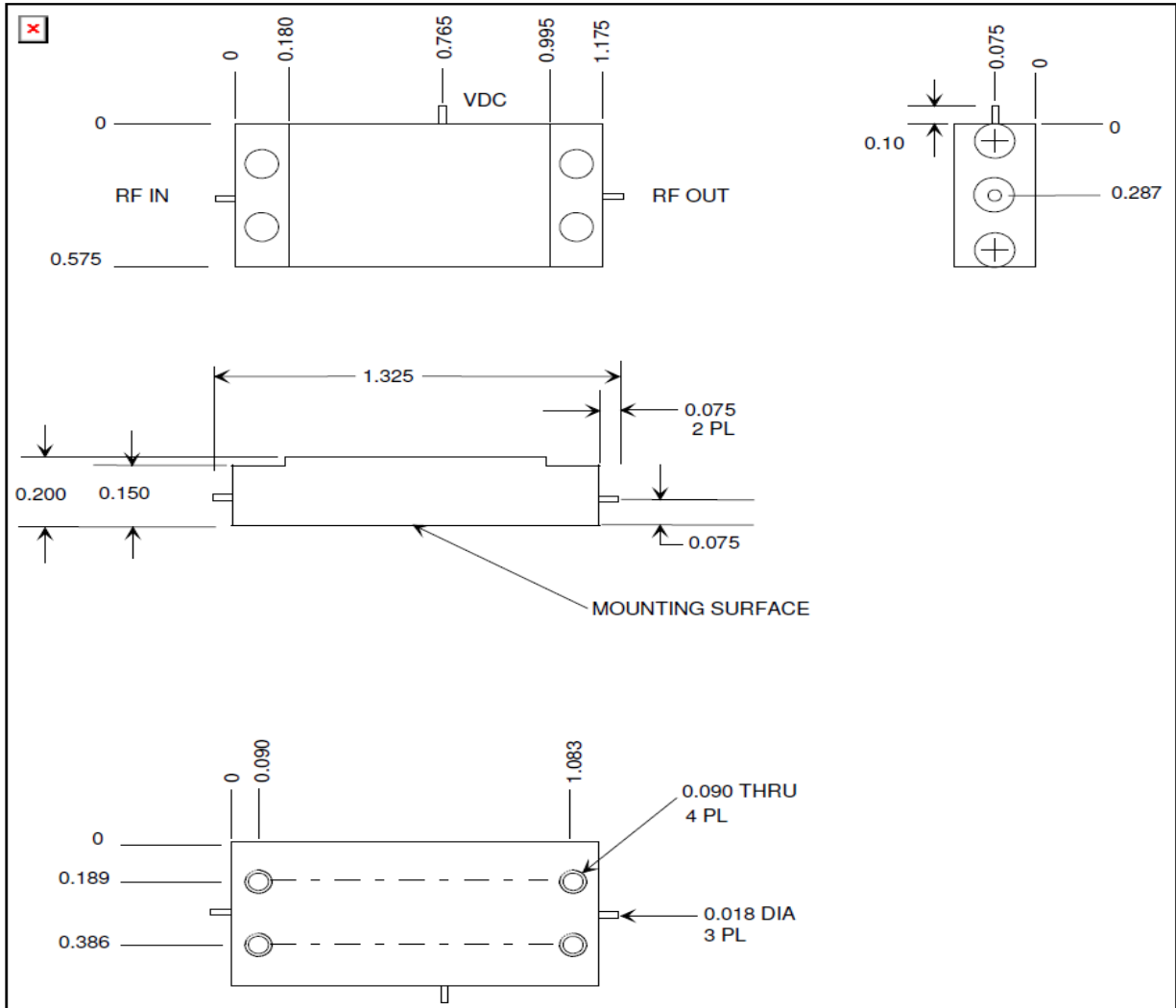
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-10		55	°C
Storage Temperature	Tstg	-20C		70°C	°C

3009 Old State Rd, Telford, PA 18969

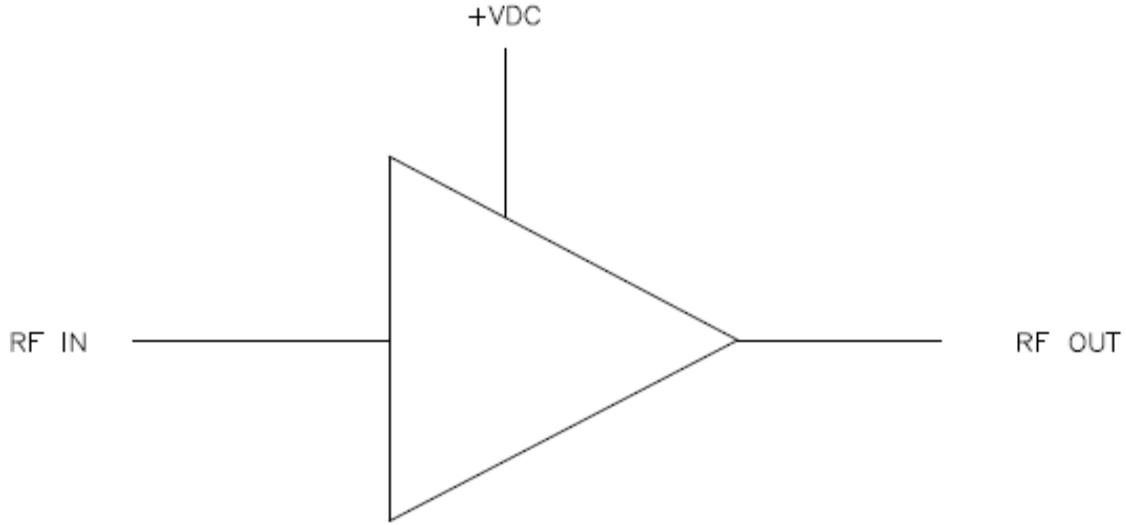
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Outline Drawing



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED