

RF Amplifier

- * Operating Frequency : 700-4200 MHz.
- * Gain : 39 dB.
- * P1dB : 34 dBm.
- * No external components required



ELECTRICAL SPECIFICATION @ VDD= +28 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	700		4200	MHz.
Gain	G	37	39	42	dB.
Gain Flatness	ΔG		± 1.3	± 2.0	dB.
Noise Figure	N.F.		8	9	dB.
Output Power	P1dB	33	34		dBm.
Saturated Power	Psat	35	37		W
IP3	IP3		38		dBm.
VSWR In	VSWR1		2.0:1	2.5:1	Ratio
Operating Voltage	Vdc		28		Volt
Operating Current Idq	Idq		3000		mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
RF connector	SMA-F		
DC Pins	Feedthru		
Cooling	None		
Monitor Connector	None		

PROTECTION

Parameter	Limits	Units
RF Input Power	5	dBm.
Reverse Polarity Protection	N/A	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

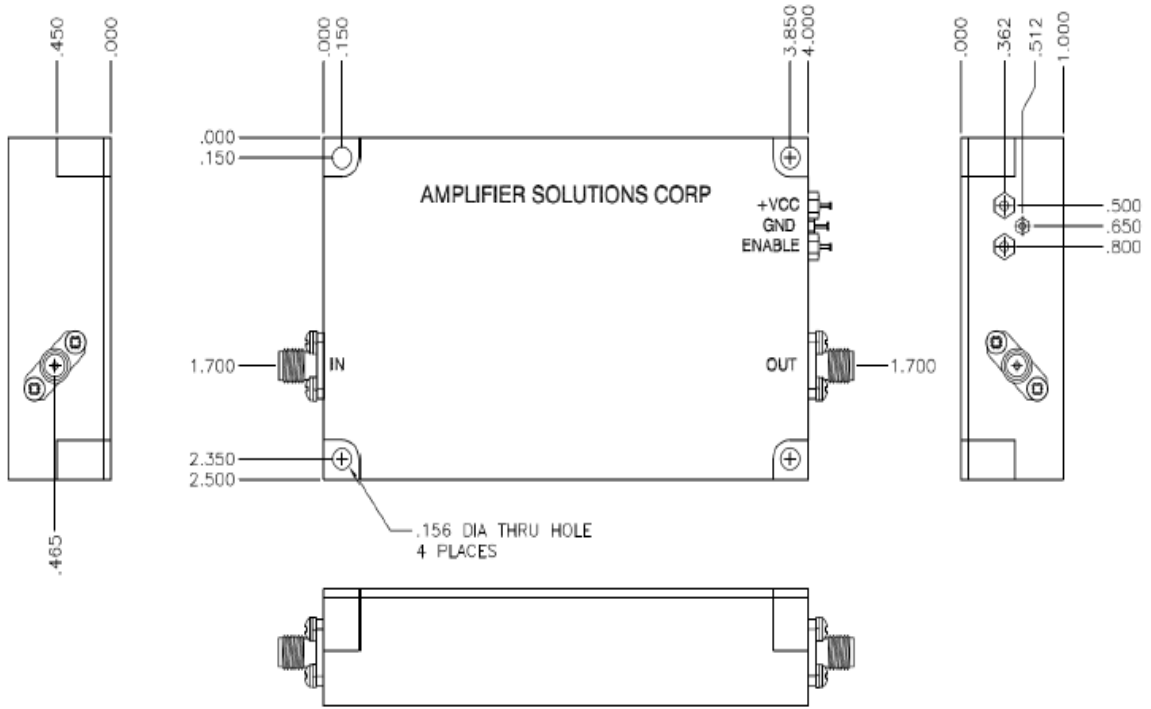
ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-20°C		65°C	°C
Storage Temperature	Tstg	- 55°C		120°C	°C

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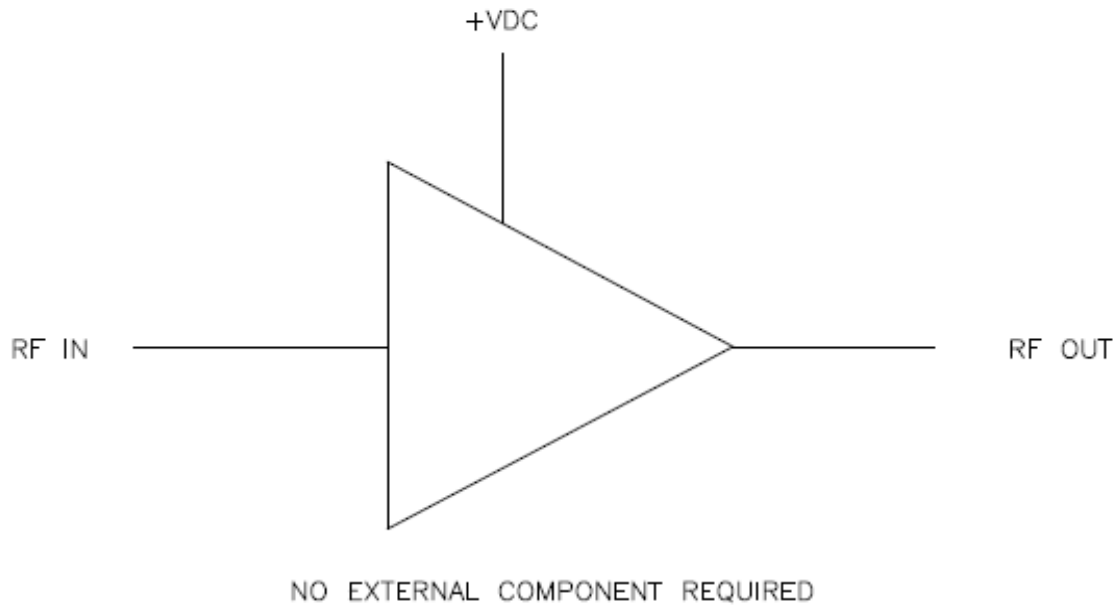
Note: TTL On/OFF Procedure
0V.....On
+5V.....Off

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FUNCTIONAL BLOCK DIAGRAM



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