

Wide Band RF Amplifier

- * Operating Frequency : 30-512 MHz.
- * Saturated Power : 16W Psat Typical
- * Gain : 37 dB.
- * No external components required



Description: Ultra wideband operation, Fiber Drivers, Test Instrumentation, All Purpose Power Amp

ELECTRICAL SPECIFICATION @ VDD= +28 VDC, -5VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	30		512	MHz.
Gain	G	36	37		dB.
Gain Flatness	ΔG		± 1.0	± 1.5	dB.
Power Added Efficiency	PAE		30		%
Power Output	P1dB	40	42		dBm.
Return Loss Input	S11/S22		2.0:1	2.5:1	Ratio
Operating Voltage	Vdc		+28V / - 5V		Volt
Operating Current Idq	Idq		1200		mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2x1x0.50		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtered DC		
Cooling	Heat Sink		

PROTECTIONS

	Max	
RF Input Power	7	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

ENVIROMENTAL CHARACTERISTICS

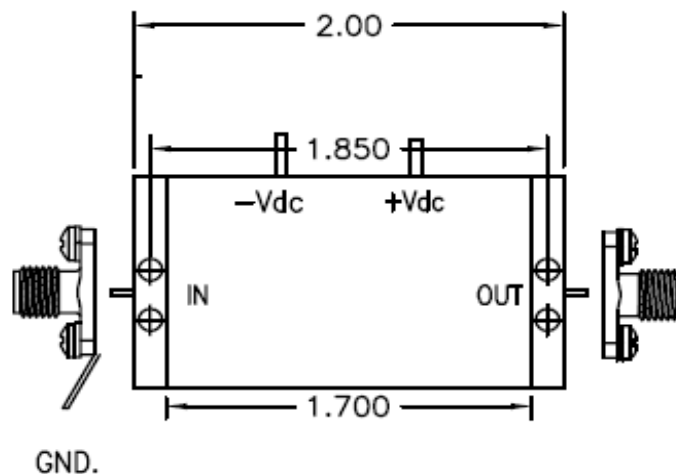
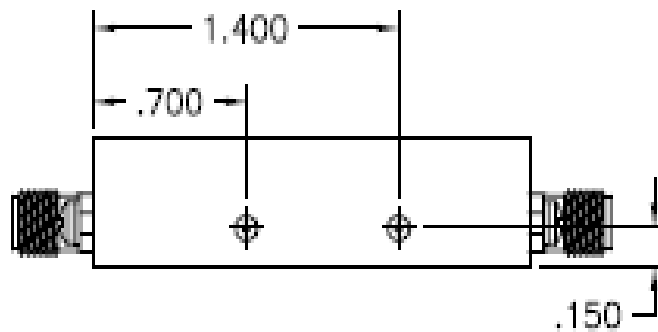
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		125°C	°C

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Outline



TURN ON/OFF AMPLIFIER

ON APPLIED -5V BEFORE +28V
OFF SHUT OFF +28V BEFORE -5V

FUNCTIONAL BLOCK DIAGRAM

