

RF Amplifier

- * Operating Frequency : 1-300 MHz.
- * Gain : 24.5 dB.
- * High IP3 37 dBm.
- * No external components required

ELECTRICAL SPECIFICATION @ VDD= +20 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1		300	MHz.
Gain	G	23.5	24.5	25.5	dB.
Gain Flatness	Δ G		±0.5		dB.
Noise Figure	N.F.		3.8		dB.
Output Power	P 1dB		22		dBm.
Two Tone Intercept @ 15dBm output per tone	IP3		37		dBm.
IP2 @ P Out = + 15dBm	IP2		52		dBm.
VSWR in/out	S11/S22		1.5:1		Ratio
Operating Voltage	Vdc		20	24	Volt
Operating Current	Id		154		mA.

MECHANICAL SPECIFICATION

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

PROTECTION

	Max	
RF Input Power	13	dBm.
Reverse Polarity Protection	N/A	
Load VSWR	Infinite up to 1W	
Stability	100% Tested	

ENVIRONMENTAL CHARACTERISTICS

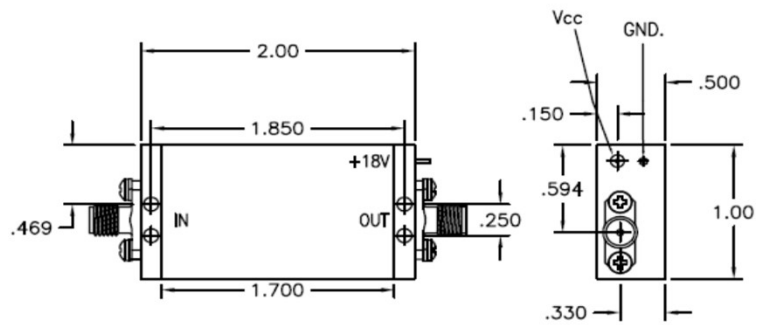
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-54		71	°C
Storage Temperature	Tstg	- 62C		125°C	°C

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Outline Drawing



FUNCTIONAL BLOCK DIAGRAM

