

## RF Amplifier

- \* Operating Frequency :50-500 MHz
- \* Linear Power : +35 dBm
- \* IP3 : +51 dBm
- \* IP2 : +85 dBm
- \* Noise Figure : 3.0dB



**Description:** Designed for linear application in the 50 - 500MHz range. This amplifier utilizes GaAs FETs and GaN devices that provide high wide dynamic range and excellent 2nd & 3rd OIP.

### ELECTRICAL SPECIFICATION @ VDD= +24 VDC; Temp. = 25 °C, 50Ω System

Parameter	Symbol	Min	Type	Max	Unit
Operating Frequency	BW	50		500	MHz
Gain	G	20	22		dB
Gain Flatness	Δ G		±0.5	± 1.0	dB
Noise Figure	NF		3	5	dB
Power Output P1dB	P1dB	34	35		dBm
Output 3rd Order Intercept Point	OIP3	49	51		dBm
Output 2nd Order Intercept Point	OIP2	80	85		dBm
VSWR in/out	S11/S22		1.8 :1	2.0 :1	Ratio
Operating Voltage	Vdc		24		Volt
Operating Current	Id		400	450	mA

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2.0 x 1.0 x 0.5		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

