

## RF Amplifier

### FEATURES:

- \* Operating Frequency : 50-500 MHz
- \* High Output Power.....+34dbm
- \* High IP3.....+52dbm
- \* High IP2.....+85 dbm
- \* NF ..... 3dB

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	50		500	MHz
Gain	G	30	32	34	dB
Gain Flatness P-P	Δ G		±0.5	±1.0	dB
Noise Figure	NF		3	4	dB
Output Power	P1dB	33	34		dBm
3rd Order Intercept	IP3	49	52		dBm
2nd Order Intercept	IP2	80	85		dBm
Input Return Loss	S11	-9.54	-13		dB
Output Return Loss	S22	-9.54	-11		dB
Operating Voltage	Vdc		28		Volt
Operating Current	Id		650	820	mA

### MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	3.75 x 2.01 x 1.60		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtercon		
Cooling	Heat Sink		
Monitor Connector	None		

### PROTECTIONS

RF Input Power	30 dBm	Max	
Reverse Polarity Protection	Option		
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	- 40C		100 °C	°C

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Outline Drawing

