

RF Amplifier

FEATURES:

- * Operating Frequency : 0.5 - 35 MHz
- * High Output Power.....+31.5dbm
- * High IP3.....+50dbm
- * High IP2.....+93 dbm

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	0.5		35	MHz
Gain	G	21.2	21.9	22.6	dB
Gain Flatness P-P	Δ G		±0.2	±0.4	dB
Noise Figure	NF		4	5	dB
Reverse Isolation	R.I	26	27		dB
Output Power	P1dB	31	31.5		dBm
3rd Order Intercept	IP3	49	50		dBm
2nd Order Intercept	IP2	90	93		dBm
Input VSWR	S11		1.3:1	1.5:1	Ratio
Output VSWR	S22		1.3:1	1.5:1	Ratio
Operating Voltage	Vdc		24		Volt
Operating Current	Id		410	420	mA

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	3.9 x 2.975 x 0.746		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtercon		
Cooling	NO		
Monitor Connector	None		

PROTECTIONS

Continuous RF Input Power	20 dBm	Max	
Short term RF Input Power	200 mW(1 Minute Max)		
Maximum Peak Power	0.5W(3 us Max)		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-20 °C		71 °C	°C
Storage Temperature	Tstg	- 55C		125 °C	°C

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Outline Drawing

Outline Drawing

(For Reference Only)

