

## RF Amplifier

- \* Operating Frequency : 500-3000 MHz
- \* Gain : 12 dB
- \* High IP3 40dBm

Direct replacement for TELEDYNE COUGAR AP3008

### ELECTRICAL SPECIFICATION @ VDD= +15 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit	Actual Result
Operating Frequency	BW	500		3000	MHz	
Gain	G	10.5	12.5		dB	11
Gain Flatness	Δ G		±0.6	± 0.9	dB	0.5
Noise Figure ( 500-3000 MHz )	N.F.		4	5	dB	5.9
Output Power	P 1dB	23	25		dBm	24
Two Tone Intercept @ 10dBm output per tone	IP3		40		dBm	42
IP2 @ P Out = + 10dBm	IP2		55		dBm	60
VSWR in/out	S11/S22		1.6/1.8:1	2.0/2.0:1	Ratio	1.7:1
Operating Voltage	Vdc		15		Volt	15
Operating Current	Id		200		ma	201

### MECHANICAL SPECIFICATION

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

### PROTECTION

	Max	
RF Input Power	20	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	-55C		85C	°C
Storage Temperature	Tstg	- 55C		120 °C	°C

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Outline Drawing

