

Broadband Microwave Amplifier

PRELIMINARY

- * Operating Frequency : 2-4 GHz
- * Gain : 40 dB
- * P1dB: +29 dBm
- * Noise Figure: 2 dB

ELECTRICAL SPECIFICATIONS @ VDD= +15V, Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	2		4	GHz
Gain	G	38	40	43	dB
Gain Flatness	Δ G		±0.7	±1.5	dB
Output Power @ 1 dB compression	P1dB	28	29		dBm
Output Third Order Intercept Point	IP3	38	40		dBm
Output Second Order Intercept Point	IP2	48	50		dBm
Noise Figure	NF		2	4	dB
VSWR input/output	VSWR		1.7	2.5	Ratio
Supply Voltage	Vdd		15	15.5	Volts
Operating Current	Id		350	500	mA

MECHANICAL SPECIFICATIONS

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

PROTECTION

	Max	
RF Input Power	15	dBm
Reverse Polarity Protection	None	
Stability	100% Tested	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-15		75	°C
Maximum Case Temperature	Tstg			100	°C
Storage Temperature	Tstg	- 55		120	°C

12/6/2013

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Outline Drawing

Outline TBD