

A4C2124

10 TO 2000 MHz SMA CASCADED AMPLIFIER

Typical Values

High Gain	A4C2124	32.3 dB
Low Noise Figure		2.7 dB
High Output Level		+24.5 dBm
High Reverse Isolation		50 dB
High Performance Thin Film		
Four-stage SMA Package		

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	5-2100 MHz	10-2000 MHz	10-2000 MHz
Small Signal Gain (Min.)	32.3 dB	30.0 dB	28.0 dB
Gain Flatness (Max.)	±0.7 dB	±1.5 dB	±1.6 dB
Noise Figure (Max.)	2.7 dB	3.5 dB	4.0 dB
SWR (Max.)	Input/Output	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.	+24.5 dBm	+22.5 dBm	+22.0 dBm
Reverse Isolation	50 dB	—	—
DC Current (Max.)	230 mA	236 mA	242 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C

Second Order Harmonic Intercept Point	A4C2124	+62 dBm
Second Order Two Tone Intercept Point		+56 dBm
Third Order Two Tone Intercept Point		+34 dBm

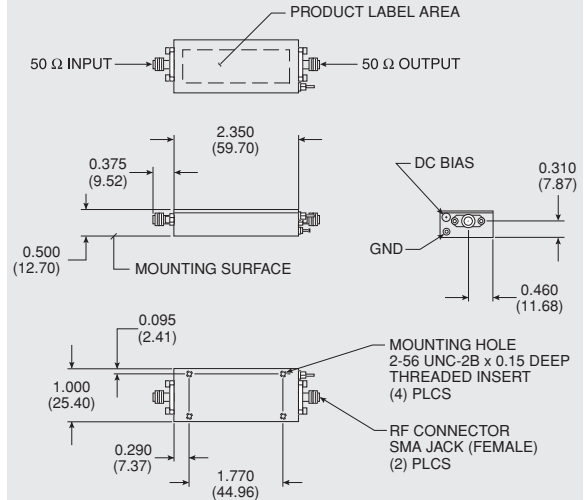
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+105 °C
Thermal Resistance¹ (θjc)	+15 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+30.4 °C

¹ Thermal resistance is based on total power dissipation.

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TO-8 Amplifier SMA Case (three- and four-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]