

A2P4022

800 TO 4000 MHz SMA CASCADED AMPLIFIER

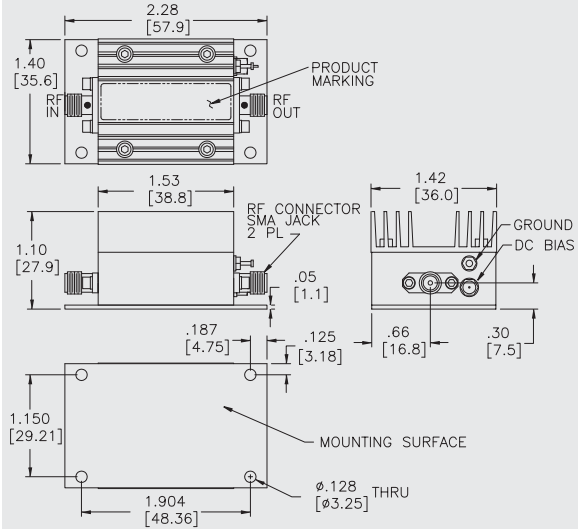
Typical Values

High Gain	35.0 dB
Low Noise Figure	4.0 dB
High Output Level	+22.5 dBm
High Third Order I.P.	+35 dBm
High Reverse Isolation	60 dB
High Performance Thin Film	
Power Pack SMA Package	

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**Power Pack SMA Case
(two-stage)**



SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	700-4000 MHz	800-4000 MHz	800-4000 MHz
Small Signal Gain (Min.)	35.0 dB	30.0 dB	29.0 dB
Gain Flatness (Max.)	±0.7 dB	±1.0 dB	±1.2 dB
Noise Figure (Max.)	1.0-3.0 GHz	2.7 dB	3.5 dB
	0.2-1.0 GHz	3.5 dB	5.0 dB
SWR (Max.)	Input/Output	1.7:1	1.9:1
Power Output (Min.) @ 1dB comp.	+22.5 dBm	+22.0 dBm	21.5 dBm
Reverse Isolation	60 dB	—	—
DC Current (Max.)	300 mA	315 mA	325 mA

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

INTERMODULATION PERFORMANCE

Typical @ 25 °C

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Second Order Harmonic Intercept Point	+61 dBm
Second Order Two Tone Intercept Point	+55 dBm
Third Order Two Tone Intercept Point	+35 dBm

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+110 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+17 dBm
Maximum Short Term Input Power (1 Minute Max.)	100 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+85 °C
Thermal Resistance¹ (θjc)	+18 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+55.3 °C

¹ Thermal resistance is based on total power dissipation.

DIMENSIONS ARE IN INCHES [MILLIMETERS]