

A2P3527

100 TO 3500 MHz SMA CASCADED AMPLIFIER

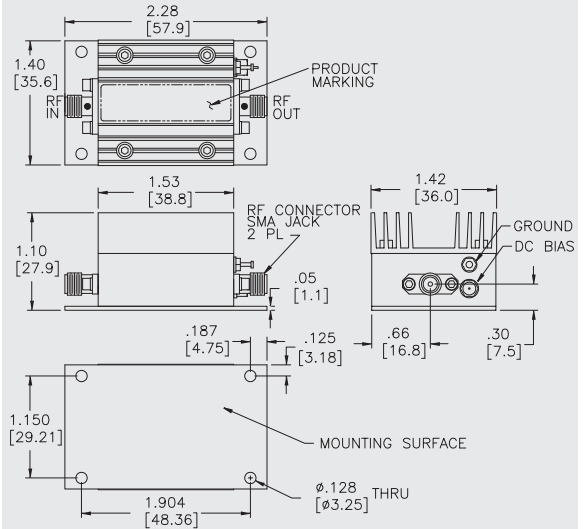
Typical Values

High Gain	28.5 dB
Low Noise Figure	3.5 dB
High Output Level	+27.0 dBm
High Reverse Isolation	50 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.)	50-3500 MHz	100-3500 MHz	100-3500 MHz
Small Signal Gain (Min.)	28.5 dB	26.5 dB	24.0 dB
Gain Flatness (Max.)	±0.6 dB	±0.8 dB	±1.0 dB
Noise Figure (Max.) 500-3500	3.5 dB	4.5 dB	5.0 dB
SWR (Max.) Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp. 100-3200 MHz 3200-3500MHz	+27.0 dBm +25.5 dBm	+26.0 dBm +25.0 dBm	25.5 dBm 24.5 dBm
Reverse Isolation	50 dB	—	—
DC Current (Max.)	355 mA	385mA	410 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	+48 dBm
Second Order Two Tone Intercept Point	+42 dBm
Third Order Two Tone Intercept Point	+36 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	+6 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+85 °C
Thermal Resistance¹ (θjc)	+15 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+63.9 °C

¹ Thermal resistance is based on total power dissipation.

DIMENSIONS ARE IN INCHES [MILLIMETERS]