

A2P2128

50 TO 2000 MHz SMA CASCADED AMPLIFIER

Typical Values

High Gain	A2P2128
Low Noise Figure	27.0 dB
High Output Level	3.2 dB
High Third Order I.P.	0.5 Watt
High Reverse Isolation	+39 dBm
High Performance Thin Film	49 dB
Power Pack SMA Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	30-2100 MHz	50-2000 MHz	50-2000 MHz
Small Signal Gain (Min.)	27.0 dB	25.0 dB	23.5 dB
Gain Flatness (Max.)	±0.5 dB	±0.7 dB	±1.0 dB
Noise Figure (Max.)	3.2 dB	3.7 dB	4.2 dB
SWR (Max.) Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.	+27.5 dBm	+26.3 dBm	+25.8 dBm
Reverse Isolation	49 dB	—	—
DC Current (Max.)	340 mA	355 mA	365 mA

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

INTERMODULATION PERFORMANCE

Typical @ 25 °C

Second Order Harmonic Intercept Point	A2P2128
Second Order Two Tone Intercept Point	+58 dBm
Third Order Two Tone Intercept Point	+52 dBm
	+39 dBm

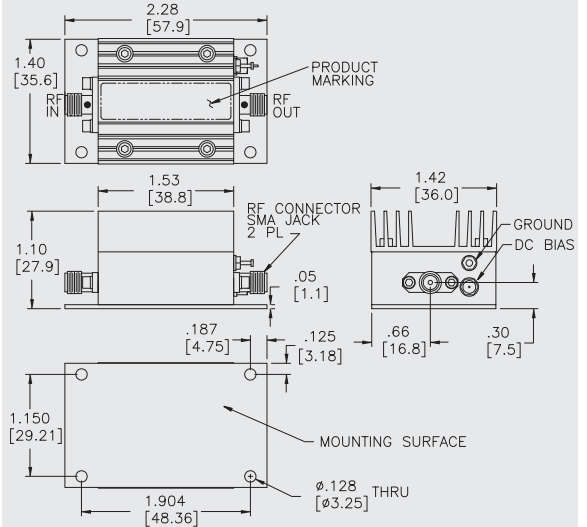
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+115 °C
Maximum DC Voltage	+16 Volts
Maximum Continuous RF Input Power	+15 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)	+14 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+60.0 °C

¹ Thermal resistance is based on total power dissipation.

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Power Pack SMA Case (two-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]