

A2P2510

10 TO 2500 MHz SMA CASCADED AMPLIFIER

Typical Values

High Gain	A2P2510
High Output Level	19.0 dB
High Third Order I.P.	0.5 Watt
High Reverse Isolation	+37 dBm
High Performance Thin Film	35 dB
Power Pack SMA Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	5-2500 MHz	10-2500 MHz	10-2500 MHz
Small Signal Gain (Min.)	19.0 dB	18.0 dB	17.0 dB
Gain Flatness (Max.)	±0.6 dB	±0.8 dB	±0.9 dB
Noise Figure (Max.) 200-2500 MHz	4.7 dB	5.2 dB	5.7 dB
SWR (Max.) Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.	+27.5 dBm	+26.0 dBm	+25.5† dBm
Reverse Isolation	35 dB	—	—
DC Current (Max.)	285 mA	305 mA	315 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.
† Indicates minimum temperature at -55/+71 °C.

INTERMODULATION PERFORMANCE

Typical @ 25 °C

Second Order Harmonic Intercept Point	A2P2510
Second Order Two Tone Intercept Point	+58 dBm
Third Order Two Tone Intercept Point	+52 dBm
	+37 dBm

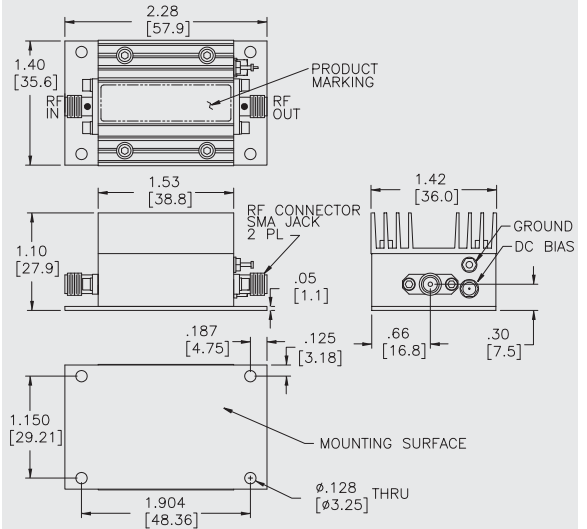
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+105 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+9 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)	+24 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+69.3 °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]