

A2CP18225 10.0-18.0 GHz COUGARPAK™ AMPLIFIER

Typical Values **A2CP18225**
High Power Output +24.5 dBm
High Reverse Isolation 45 dB
Ultra Broad Bandwidth 10.0-18.0 GHz
High Performance Thin Film
High Frequency Two-stage CougarPak™ Package

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	10.0-18.0 GHz	10.0-18.0 GHz	10.0-18.0 GHz
Small Signal Gain (Min.)	16.0 dB	14.5 dB	14.0 dB
Gain Flatness (Max.)	±1.2 dB	±1.5 dB	±1.5 dB
Noise Figure (Max.)	4.5 dB	5.5 dB	6.0 dB
SWR (Max.) Input/Output	1.8:1	2.0:1	2.0:1
Power Output (Min.) @ 1dB comp.	+24.5 dBm	+23.5 dBm	+23.0 dBm
Reverse Isolation	45 dB	—	—
DC Current (Max.)	250 mA	265 mA	280 mA

* Measured in a 50-ohm system at +10 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C **A2CP18225**
Second Order Harmonic Intercept Point +46 dBm
Second Order Two Tone Intercept Point +41 dBm
Third Order Two Tone Intercept Point +31 dBm

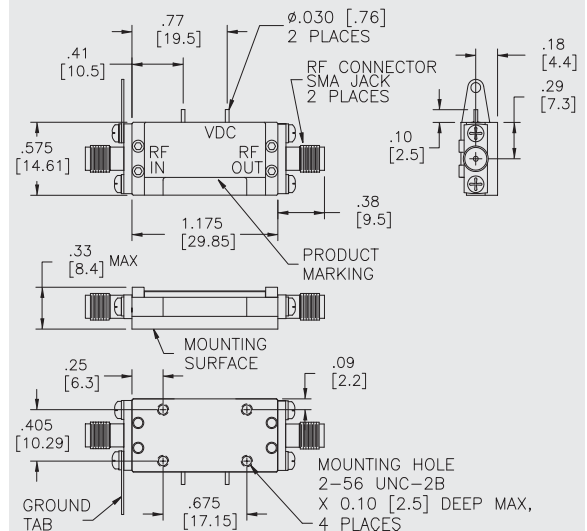
ABSOLUTE MAXIMUM RATINGS

Storage Temperature -62 to +125 °C
Maximum Case Temperature +125 °C
Maximum DC Voltage +14 Volts
Maximum Continuous RF Input Power +13 dBm
Maximum Short Term Input Power (1 Minute Max.) +17 dBm
Maximum Peak Power (3 μsec Max.) +20 dBm
Burn-in Temperature +125 °C
Thermal Resistance¹ (θjc) 15 °C/Watt
Junction Temperature Rise Above Case (Tjc) 39.1 °C

¹ Thermal resistance is based on total power dissipation.

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High Frequency CougarPak™ SMA Package (two-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]