TELEDYNE
MICROWAVE SOLUTIONS
Everywhereyoulook™

Rev. 6/16

A2CP18615 6.0-18.0 GHz COUGARPAK™ AMPLIFIER

Typical Values	A2CP18615
High Gain	21.0 dB
High Reverse Isolation	55 dB
Low Noise Below 12 GHz	2.5 dB
Ultra Broad Bandwidth	6.0-18.0 GHz
High Performance Thin Film	
High Frequency Two-stage CougarPak™ Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed 0 to 50 °C	Guaranteed -55 to +85 °C
Frequency (Min.)	6.0-18.0 GHz	6.0-18.0 GHz	6.0-18.0 GHz
Small Signal Gain (Min.)	21.0 dB	19.0 dB	18.0 dB
Gain Flatness (Max.)	±1.2 dB	±1.5 dB	±1.5 dB
Noise Figure (Max.)	3.0 dB	5.0 dB	5.5 dB
SWR (Max.) Input/Output	1.8:1	2.0:1	2.0:1
Power Output (Min.) @ 1dB comp.	+20.0 dBm	+18.5 dBm	+17.5 dBm
Reverse Isolation	55 dB	—	—
DC Current (Max.)	210 mA	225 mA	235 mA

* Measured in a 50-ohm system at +8 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C	A2CP18615
Second Order Harmonic Intercept Point	+39 dBm
Second Order Two Tone Intercept Point	+33 dBm
Third Order Two Tone Intercept Point	+26 dBm

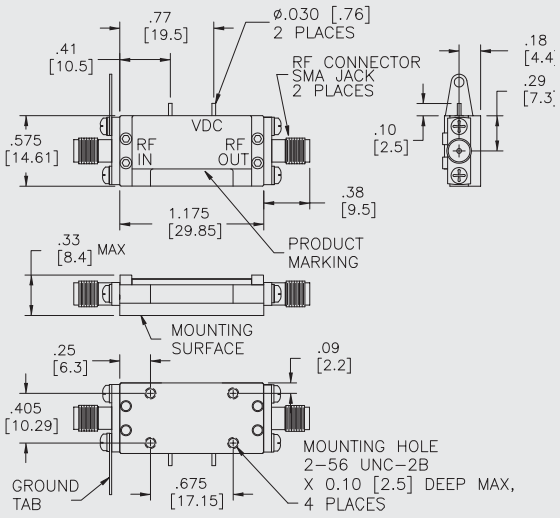
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+8.5 Volts
Maximum Continuous RF Input Power	+23 dBm
Burn-in Temperature	+92 °C
Thermal Resistance[1] (θjc)	37.1 °C/Watt
Junction Temperature Rise Above Case (Tjc)	57.8 °C

[1] Thermal resistance is based on total power dissipation.

A2CP18615

High Frequency CougarPak™ SMA Package (two-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]