

A2C2115 10 TO 2000 MHz SMA CASCADED AMPLIFIER

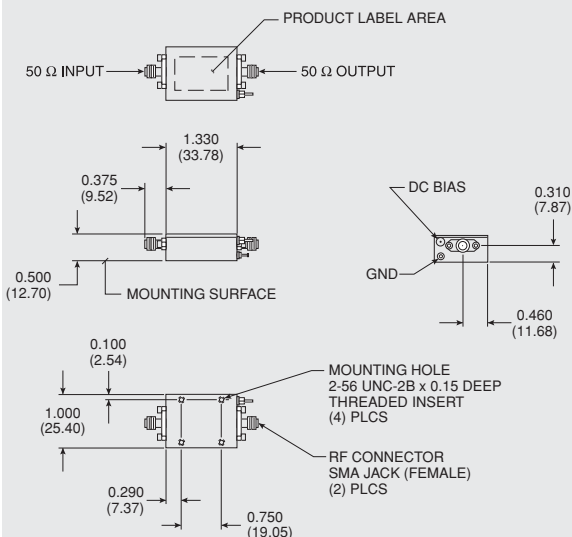
Typical Values

High Gain	28.0 dB
Low Noise Figure	3.0 dB
Medium Output Level	+15.0 dBm
High Reverse Isolation	49 dB
High Performance Thin Film	
Two-stage SMA Package	

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T0-8 Amplifier SMA Case (two-stage)



SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	5-2100 MHz	10-2000 MHz	10-2000 MHz
Small Signal Gain (Min.)	28.0 dB	26.5 dB	25.0 dB
Gain Flatness (Max.)	±0.5 dB	±0.8 dB	±1.0 dB
Noise Figure (Max.)	3.0 dB	3.5 dB	4.0 dB
SWR (Max.) Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.	+15.0 dBm	+14.0 dBm	+14.0 dBm
Reverse Isolation	49 dB	—	—
DC Current (Max.)	120 mA	125 mA	130 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	+46 dBm
Second Order Two Tone Intercept Point	+40 dBm
Third Order Two Tone Intercept Point	+27 dBm

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+18 Volts
Maximum Continuous RF Input Power	+10 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+125 °C
Thermal Resistance¹ (θjc)	+26 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+26.8 °C

¹ Thermal resistance is based on total power dissipation.

DIMENSIONS ARE IN INCHES [MILLIMETERS]