

A2C1611

1200 TO 1700 MHz SMA CASCADED AMPLIFIER

Typical Values

High Gain	A2C1611	38.0 dB
Low Noise Figure		1.0 dB
High Output Level		+17.5 dBm
High Reverse Isolation		58 dB
High Performance Thin Film		
Two-stage SMA Package		

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	1100-1700 MHz	1200-1700 MHz	1200-1700 MHz
Small Signal Gain (Min.)	38.0 dB	37.0 dB	36.0 dB
Gain Flatness (Max.)	±0.4 dB	±0.6 dB	±0.7 dB
Noise Figure (Max.)	1.0 dB	1.3 dB	1.8 dB
SWR (Max.) Input/Output	1.7:1	1.9:1	2.0:1
Power Output (Min.) @ 1dB comp.	+17.5 dBm	+16.8 dBm	+16.0 dBm
Reverse Isolation	58 dB	—	—
DC Current (Max.)	122 mA	127 mA	132 mA

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

INTERMODULATION PERFORMANCE

Typical @ 25 °C

Second Order Harmonic Intercept Point	A2C1611	+36 dBm
Second Order Two Tone Intercept Point		+30 dBm
Third Order Two Tone Intercept Point		+27 dBm

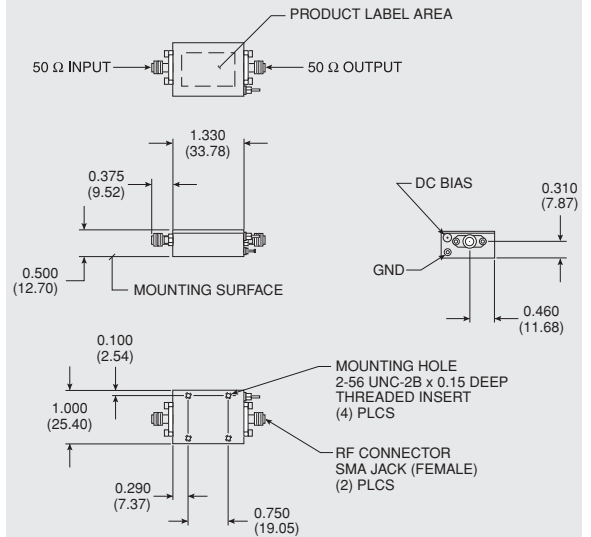
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+13 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)	+40 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+18.0 °C

¹ Thermal resistance is based on total power dissipation.

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T0-8 Amplifier SMA Case (two-stage)



DIMENSIONS ARE IN INCHES [MILLIMETERS]