TELEDYNE
MICROWAVE SOLUTIONS
Everywhereyoulook™

PRELIMINARY

A2C1611

1200 TO 1700 MHz SMA CASCADED AMPLIFIER

Typical Values	*A2C1611*
High Gain	*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	Guaranteed -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	*A2C1611*
Second Order Harmonic Intercept Point	+36 dBm
Second Order Two Tone Intercept Point	+30 dBm
Third Order Two Tone Intercept Point	+27 dBm

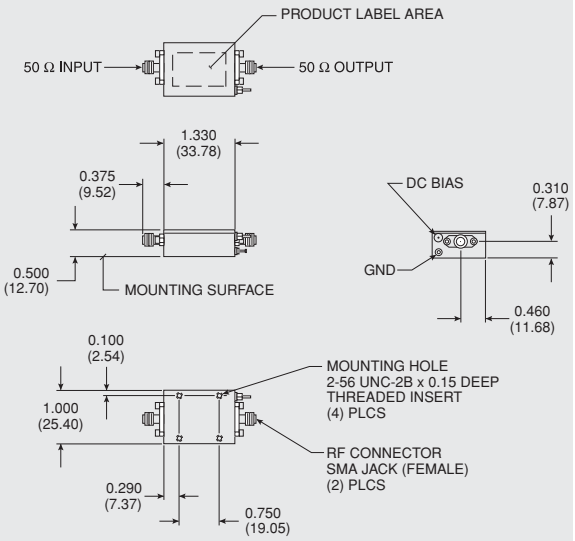
ABSOLUTE MAXIMUM RATINGS

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 Resistance[1] (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]