

AR2036

10 TO 2000 MHz TO-8B CASCADABLE AMPLIFIER

Typical Values

High Gain	26.5 dB
Medium Output Level	+14.5 dBm
High Reverse Isolation	45 dB
High Performance Thin Film TO-8B Package	

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.)	26.5 dB	25.5 dB	24.0 dB
Gain Flatness (Max.)	±0.8 dB	±1.2 dB	±1.4 dB
Noise Figure (Max.)	5.5 dB	6.5 dB	7.0 dB
SWR (Max.) Input/Output	<1.7:1	2.0:1	2.0:1
Power Output (Min.) @ 1dB comp.	+14.5 dBm	+13.0 dBm	+13.0 dBm
Reverse Isolation	45 dB	—	—
DC Current (Max.)	81 mA	85 mA	89 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C; 100 MHz

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Second Order Harmonic Intercept Point		+49 dBm
Second Order Two Tone Intercept Point		+43 dBm
Third Order Two Tone Intercept Point		+27.5 dBm

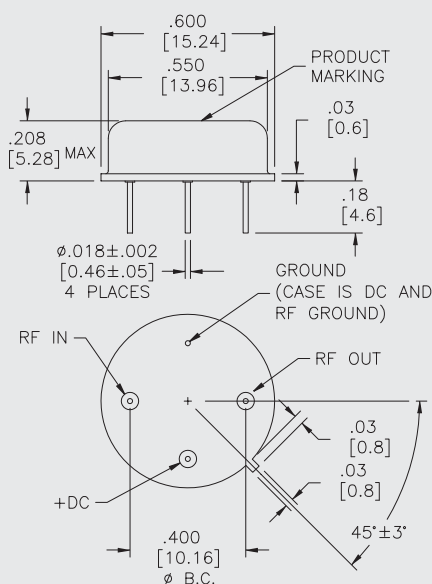
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 μsec Max.)	0.5 Watt
Burn-in Temperature	+105°C
Thermal Resistance¹ (θjc)	+33 °C/Watt
Junction Temperature Rise Above Case (Tjc)	+42.6 °C

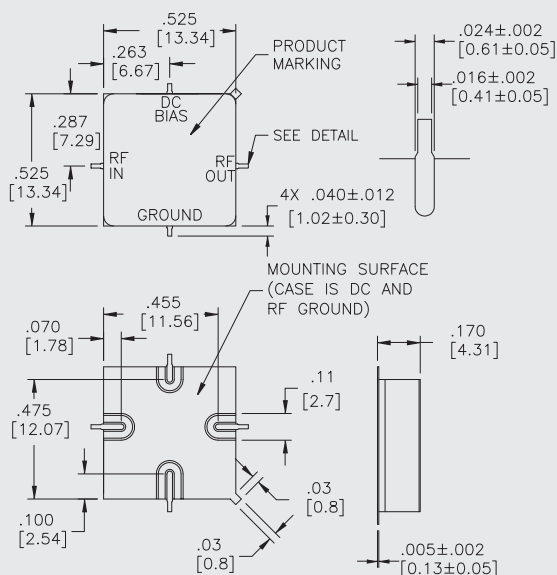
¹ Thermal resistance is based on total power dissipation.

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TO-8B Package for Amplifiers

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SMT0-8B Package for Amplifiers



DIMENSIONS ARE IN INCHES [MILLIMETERS]