

# AR2634

## 10 TO 2600 MHz TO-8B CASCADABLE AMPLIFIER

**Typical Values**

High Gain .....	<b>AR2634</b> 21.0 dB
High Reverse Isolation .....	42 dB
High Performance Thin Film TO-8B Package	

### SPECIFICATIONS\*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	10-2700 MHz	10-2600 MHz	10-2600 MHz
Small Signal Gain (Min.)	21.0 dB	20.0 dB	18.5 dB
Gain Flatness (Max.)	±0.4 dB	±1.0 dB	±1.2 dB
Noise Figure (Max.)	5.5 dB	6.7 dB	7.2 dB
SWR (Max.) Input/Output	1.5:1	2.0:1	2.0:1
Power Output (Min.) @ 1dB comp.	+12.5 dBm	+11.5 dBm	+11.5 dBm
Reverse Isolation	42.0 dB	—	—
DC Current (Max.)	76 mA	80 mA	84 mA

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

### INTERMODULATION PERFORMANCE

**Typical @ 25 °C; 100 MHz**

Second Order Harmonic Intercept Point .....	<b>AR2634</b> +36 dBm
Second Order Two Tone Intercept Point .....	+30 dBm
Third Order Two Tone Intercept Point .....	+23 dBm

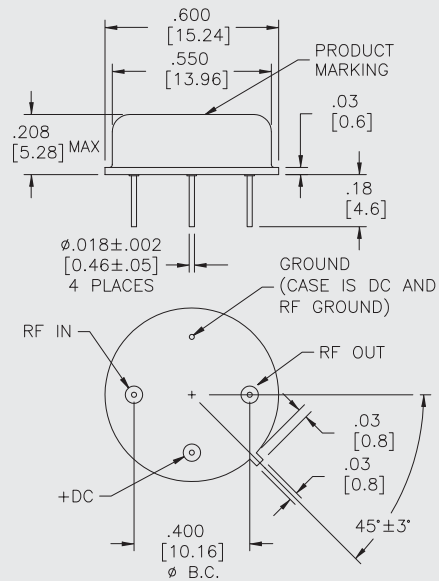
### ABSOLUTE MAXIMUM RATINGS

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 .....	+105°C
Thermal Resistance <sup>1</sup> (θjc) .....	+32 °C/Watt
Junction Temperature Rise Above Case (Tjc) .....	+38.9 °C

<sup>1</sup> Thermal resistance is based on total power dissipation.

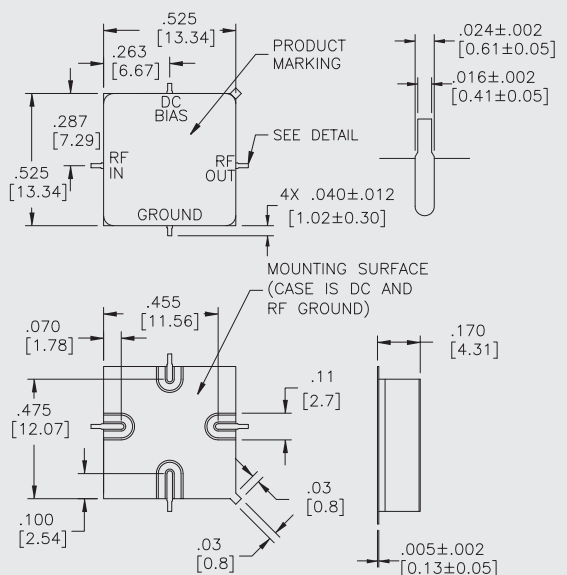
### AR2634

#### TO-8B Package for Amplifiers



### ARS2634

#### SMT0-8B Package for Amplifiers



DIMENSIONS ARE IN INCHES [MILLIMETERS]