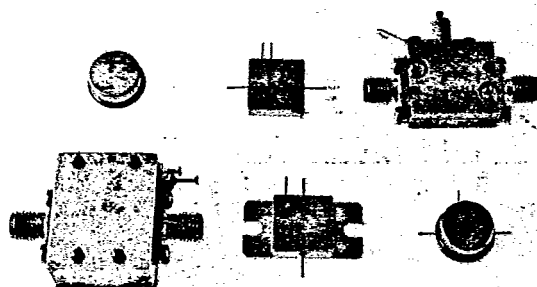


AH-16-2

T-74-09-01



10 to 10-1200 MHz TO-8 Cascadable Amplifier

- 5 Volt Operation
- Low Noise
- Broad Band Performance

Electrical Specifications

Measured in a 50-ohm system at + 5 Vdc nominal

Characteristic	Typical 25° C	Guaranteed 0° C to + 50° C	Specifications -54° C to + 85° C
Frequency (MHz Min.)	5-1300	10-1200	10-1200
Small Signal Gain (dB Min.)	+13.5	+12.5	+12.0
Gain Flatness (dB Max.)	±0.3	±0.5	±0.7
Noise Figure (dB Max.)	+2.9	+3.5	+4.0
Power Output @ 1dB Compression (dBm Min.)	+7.3	+6.0	+5.5
Two Tone 3rd Order Intercept Point (dBm Min.)	+20.0	+18.0	+18.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+34.0	+23.0	+23.0
One Tone 2nd Harmonic Intercept Point (dBm Min.)	+40.0	+31.0	+31.0
Input/Output VSWR (Max.)	>1.5:1	2.0:1	2.0:1
DC Current at 5 V (mA Max.)	+15.5	+17.0	+18.0

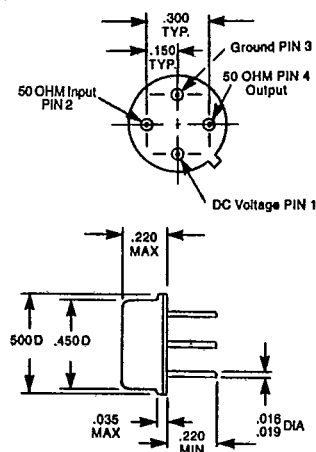
Maximum Ratings

Ambient Operating Temperature..	-54° C to +100° C
Storage Temperature.....	-62° C to +125° C
Maximum Case Temperature.....	+125° C
Maximum DC Voltage.....	+8.0V
Maximum Continuous RF Input Power	+13.0dBm
Maximum Short Term RF Input Power	+50.0 mW (1 minute Max.)
Maximum Peak Power	+0.5W (3 useconds Max.)
"X" Series Burn-In Temperature	+125° C
Weight	+2.5 grams Max.

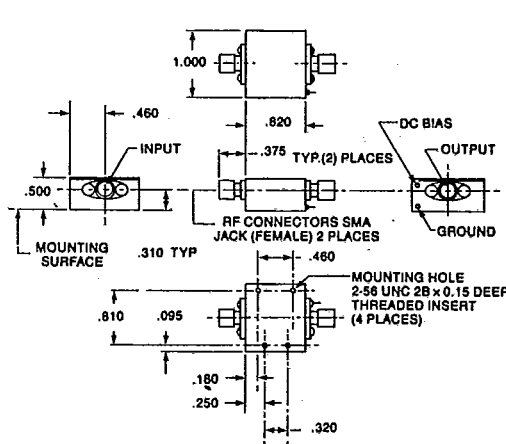
Outline Drawings

(For additional package configurations, see Section 9)

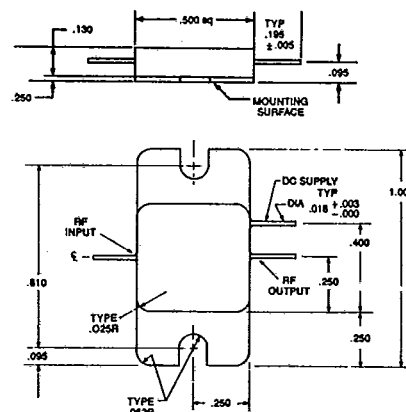
AH-16-2



CAH-16-2



FPF-16-2



Typical Performance

