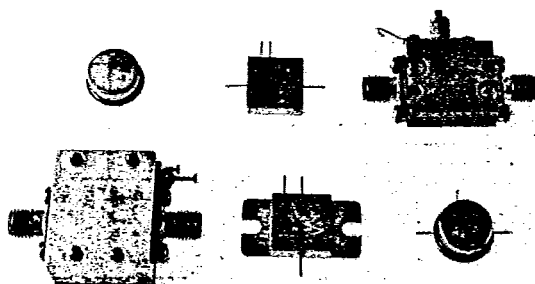


AH-38

T-74-09-01



10 to 2000 MHz TO-8 Cascadable Amplifier

- Excellent Band Width
- Typical Output Power > +18dBm

Electrical Specifications

Measured in a 50-ohm system at +15 Vdc nominal

Characteristic	Typical 25° C	Guaranteed 0° C to + 50° C	Specifications -54° C to + 85° C
Frequency (MHz Min.)	5-2050	10-2000	10-2000
Small Signal Gain (dB Min.)	+9.5	+7.0	+6.5
Gain Flatness (dB Max.)	±0.5	±0.7	±1.0
Noise Figure (dB Max.)	+6.5	+7.5	+8.0
Power Output @ 1dB Compression (dBm Min.)	+18.0	+17.5	+17.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+30.0	+26.0	+25.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+34.0	+33.0	+32.0
One Tone 2nd Harmonic Intercept Point (dBm Min.)	+41.0	+39.0	+38.0
Input/Output VSWR (Max.)	<1.9:1	2.2:1	2.2:1
DC Current at 15 V (mA Max.)	+64.0	+69.0	+72.0

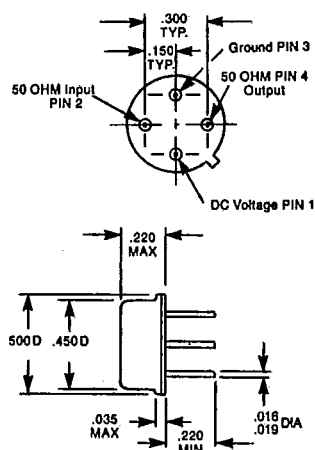
Maximum Ratings

Ambient Operating Temperature..	-54° C to +100° C
Storage Temperature.....	-62° C to +125° C
Maximum Case Temperature.....	+125° C
Maximum DC Voltage.....	+17.0V
Maximum Continuous RF Input Power	+17.0dBm
Maximum Short Term RF Input Power	+100 mW (1 minute Max.)
Maximum Peak Power	+0.5W (3 useconds Max.)
"X" Series Burn-In Temperature	+85° C
Weight	+2.5 grams Max.

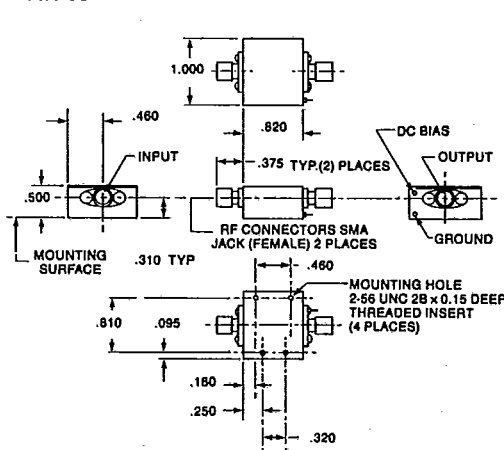
Outline Drawings

(For additional package configurations, see Section 9)

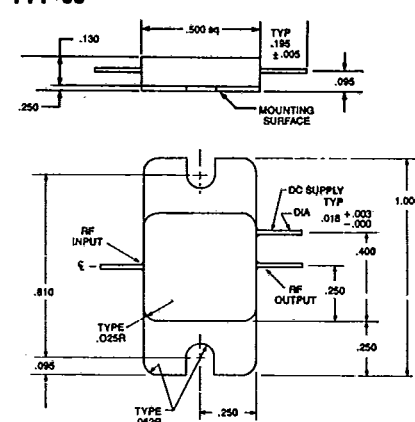
AH-38



CAH-38



FPF-38



Typical Performance

