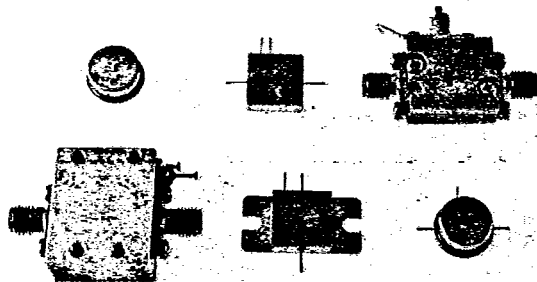


AH-66-1



10 to 1000 MHz TO-8 Cascadable Amplifier

- High Gain: +27.0dB
- Low Noise: +3.0dB
- Wideband Performance
- High Intercept Point: +28dBm
- Various Package Options (see photo)
Surface Mounted (SMTO-8), Flatpack with flange (FPF), Connectorized (CAH), Connectorized Flatpack (CFP), Flatpack (FP), and TO-8 (AH)

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.)	10-1000	10-1000	10-1000
Small Signal Gain (dB Min.)	+27.0	+26.0	+25.5
Gain Flatness (dB Max.)	±0.7	±1.0	±1.0
Noise Figure (dB Max.)	+3.0	+4.0	+4.5
Power Output @ 1 dB Compression (dBm Min.)	+15.0	+14.5	+14.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+28.0	+26.0	+24.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+38.0	+36.0	+34.0
One Tone 2nd Harmonic Intercept Point (dBm Min.)	+45.0	+43.0	+39.0
Input/Output VSWR (Max.)	<1.6:1	2.0:1	2.0:1
DC Current at 15 V (mA Max.)	+68.0	+72.0	+72.0

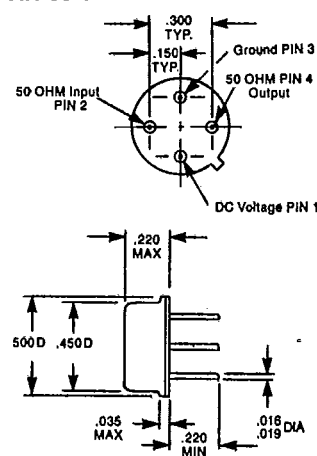
Maximum Ratings

Ambient Operating Temperature	-54°C to +100°C
Storage Temperature ...	-62°C to +125°C
Maximum Case Temperature	+105°C
Maximum DC Voltage	+18.0V
Maximum Continuous RF Input Power	+6.0dBm
Maximum Short Term RF Input Power	+50.0 mW (1 minute Max.)
Maximum Peak Power	+0.5W (3μseconds Max.)
"X" Series Burn-In Temperature	+100°C
Weight	+2.5 grams Max.

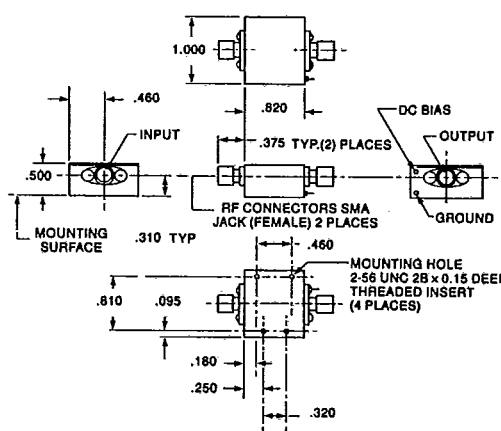
Outline Drawings

(For additional package configurations, see Section 9)

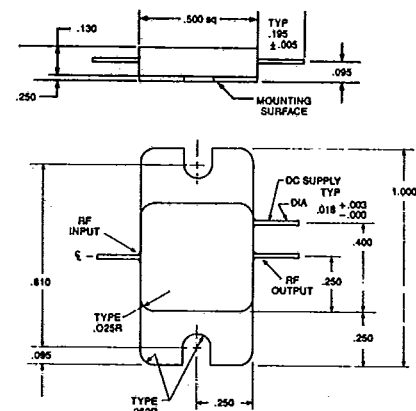
AH-66-1



CAH-66-1



FPF-66-1



Typical Performance

