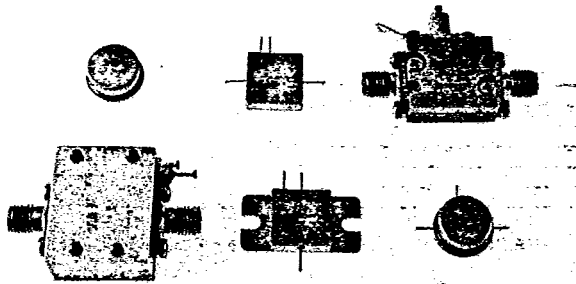


AH-70-3



20 to 250 MHz TO-8 Cascadable Amplifier

- Low Noise: +2.8dB
- High Output: +23.0dBm
- High Third Order: +36.0dBm
- 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	Guaranteed	Specifications
	25°C	0°C to +50°C	-54°C to +85°C
Frequency (MHz Min.)	20-250	20-250	20-250
Small Signal Gain (dB Min.)	+8.75	+8.25	+7.3
Gain Flatness (dB Max.)	±0.5	±0.7	±1.0
Noise Figure (dB Max.)	+2.8	+3.25	+4.0
Power Output @ 1 dB Compression (dBm Min.)	+23.0	+22.0	+22.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+36.0	+34.0	+32.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+46.0	+44.0	+42.0
One Tone 2nd Harmonic Intercept Point (dBm Min.)	+50.0	+49.0	+47.0
Input/Output VSWR (Max.)	< 1.75:1	1.9:1	2.0:1
DC Current at 15 V (mA Max.)	+46.0	+48.0	+55.0

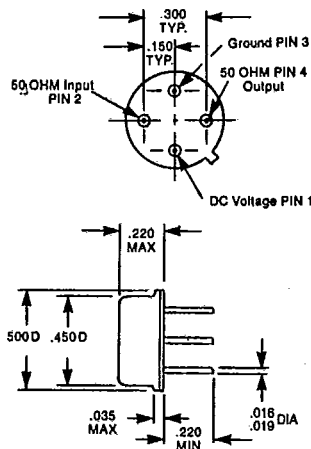
Maximum Ratings

Ambient Operating Temperature	-54°C to +125°C
Storage Temperature	-62°C to +125°C
Maximum Case Temperature	+105°C
Maximum DC Voltage	+18.0V
Maximum Continuous RF Input Power	+13.0dBm
Maximum Short Term RF Input Power	+100.0 mW (1 minute Max.)
Maximum Peak Power	+0.5W (3µseconds Max.)
"X" Series Burn-In Temperature	+100°C
Weight	+2.5 grams Max.

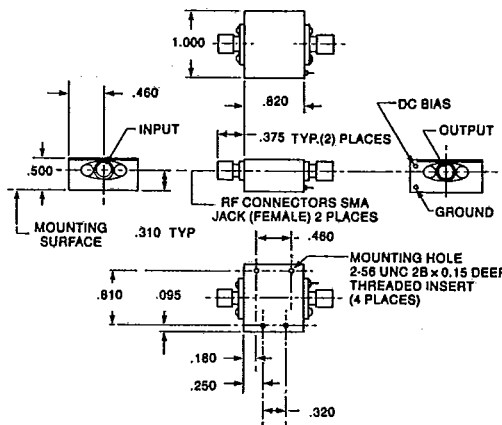
Outline Drawings

(For additional package configurations, see Section 9)

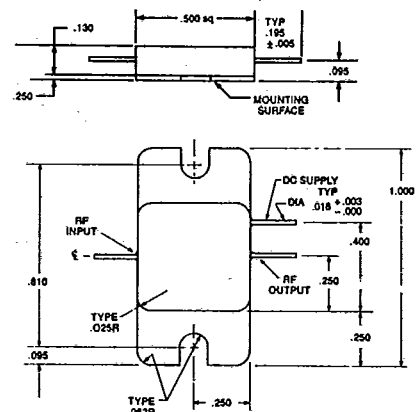
AH-70-3



CAH-70-3



FPF-70-3



AH-70-3

Typical Performance

