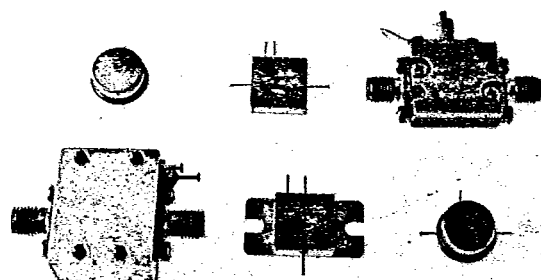


AHL-7

B-74-09-51



50 to 500 MHz TO-8 Cascadable Limiting Amplifier

- High Gain: +13.5dB
- Fast Recovery Time: 50 nsec
- Low VSWR
- 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.)	20-500	50-500	50-500
Small Signal Gain (dB Min.)	+13.5	+12.0	+11.0
Gain Flatness (dB Max.)	±0.3	±0.5	±0.7
Noise Figure (dB Max.)	+6.0	+6.6	+7.0
Power Output @ 1 dB Compression (dBm Min.)	-2.0	-6.0	-7.0
Output Limiting Level (Max.) +10dBm	+1.0	+1.6	+2.6
Input/Output VSWR (Max.)	<1.6:1	2.0:1	2.0:1
DC Current at 15 V (mA Max.)	+55.0	+58.0	+60.0

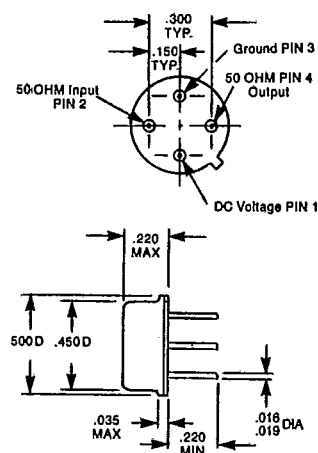
Maximum Ratings

Ambient Operating Temperature	-54°C to +100°C
Storage Temperature ...	-62°C to +125°C
Maximum Case Temperature	+105°C
Maximum DC Voltage	+17.0V
Maximum Continuous RF Input Power	+13.0dBm
Maximum Short Term RF Input Power	+50.0 mW (1 minute Max.)
Maximum Peak Power	+0.5W (3μseconds Max.)
"X" Series Burn-In Temperature	+100°C

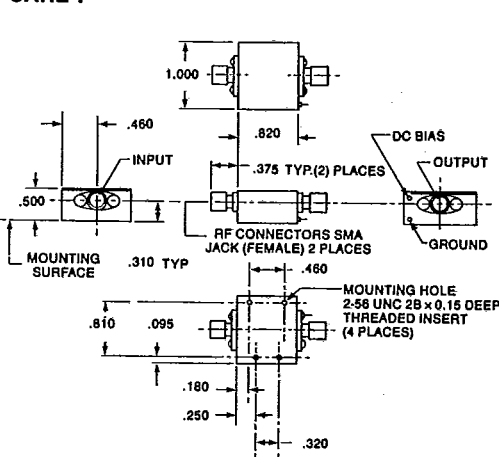
Outline Drawings

(For additional package configurations, see Section 9)

AHL-7



CAHL-7



FPF-AHL-7

