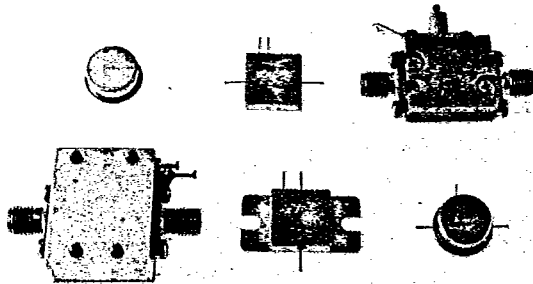


LAH-7

B-74-09-51

50 to 500 MHz Cascadable Limiting Amplifier



- Even Order Harmonic Suppression from Balanced Limiter
- Medium Gain: + 12.0dBm
- High Output: + 12.0dBm
- **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.)	50-500	50-500	50-500
Small Signal Gain (dB Min.)	+12.5	+12.0	+11.0
Gain Flatness (dB Max.)	±0.25	±0.5	±0.7
Noise Figure (dB Max.)	+7.5	+8.0	+9.0
Power Output @ 1 dB Compression (dBm Min.)	+11.0	+10.5	+7.0
Output Limiting Level (Max.) +20dBm Input	+15.0	+17.0	+16.0
Input/Output VSWR (Max.)	<1.5:1	1.7:1	2.0:1
DC Current at 15 V (mA Max.)	+55.0	+56.0	+60.0

Maximum Ratings

Ambient Operating Temperature -54°C to +71°C

Storage Temperature ... -62°C to +125°C

Maximum Case Temperature +105°C

Maximum DC Voltage +18.0V

Maximum Continuous RF Input Power +200.0 mW

Maximum Short Term RF Input Power +400.0 mW (1 minute Max.)

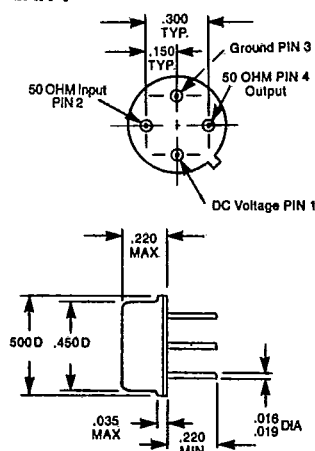
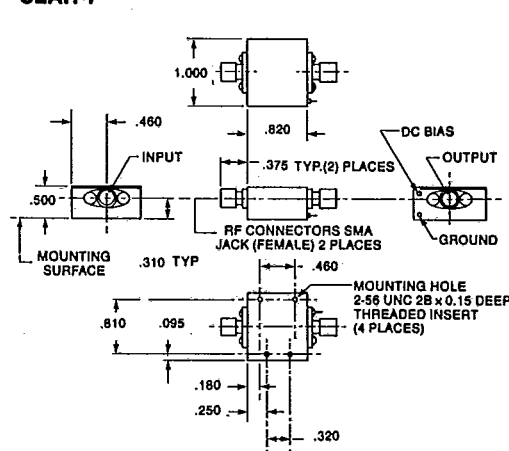
Maximum Peak Power +1.0W (3μseconds Max.)

"X" Series Burn-In Temperature +100°C

Weight +2.5 grams Max.

Outline Drawings

(For additional package configurations, see Section 9)

LAH-7**CLAH-7****FPF-LAH-7**