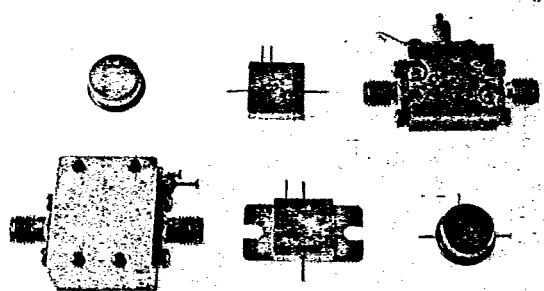


AH-21-1

T-74-09-01



5 to 1200 MHz TO-8 Cascadable Amplifier

- High Gain: +14.5dB Typ.
- Wideband: + 5-1200MHz
- Low Noise: + 2.8dB
- **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.)	5-1200	5-1200	5-1200
Small Signal Gain (dB Min.)	+14.5	+14.0	+13.5
Gain Flatness (dB Max.)	±0.5	±0.7	±1.0
Noise Figure (dB Max.)	+2.8	+3.5	+3.9
Power Output @ 1 dB Compression (dBm Min.)	-1.5	-2.0	-3.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+9.0	+8.0	+7.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+19.0	+18.0	+17.0
One Tone 2nd Harmonic Intercept Point (dBm Min.)	+25.0	+24.0	+22.0
Input/Output VSWR (Max.)	<1.6:1	2.0:1	2.0:1
DC Current at 15 V (mA Max.)	+10.0	+12.0	+12.0

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 +13.0dBm

Maximum Short Term RF Input Power +50.0 mW (1 minute Max.)

Maximum Peak Power +0.5W (3μseconds Max.)

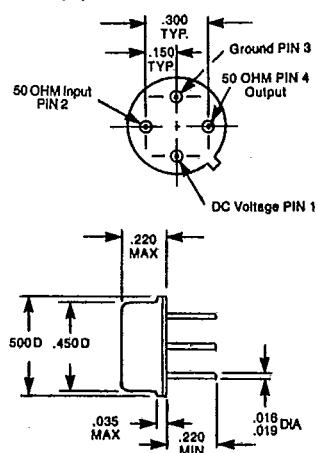
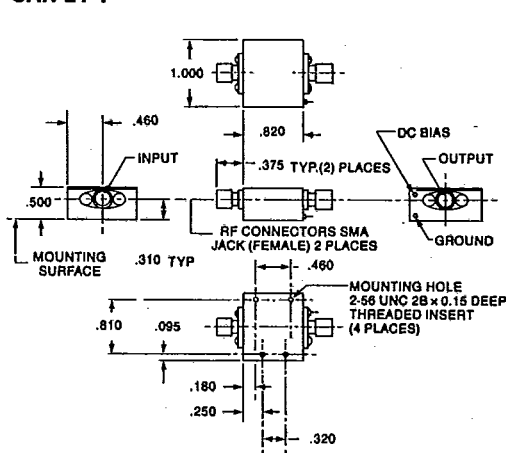
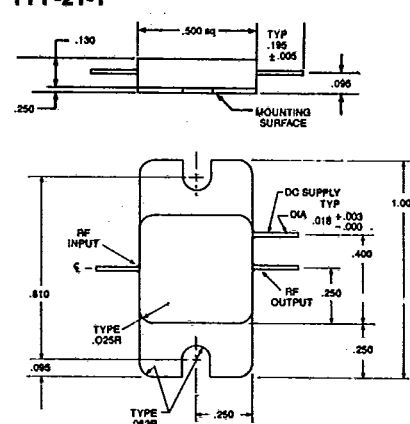
"X" Series Burn-In Temperature +125°C

Weight +2.5 grams Max.

Outline Drawings

(For additional package configurations, see Section 9)

AH-21-1

**CAH-21-1****FPF-21-1**

Typical Performance

