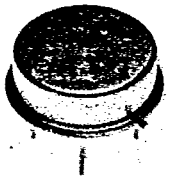
AH-5887



DC to 500 MHZ TO-8 Cascadable Amplifier

- Broadband DC-500MHZ
- Large TO-8 (12 pin)
- Excellent Stability over Temperature
- Fast Speed 1 nano second

Electrical Specifications

Measured in a 50-ohm system at + 10 Vdc nominal

Characteristic	Typical 25° C	Guaranteed 0° C to + 50° C	Specifications -54° C to + 85° C
Frequency (MHz Min.)	DC-500	DC-500	DC-500
Small Signal Gain (dB Min.)	+8.0	+7.8	+7.6
Gain Flatness (dB Max.)	±0.5	±0.5	±0.6
Noise Figure (dB Max.)	+11.4	+11.8	+11.8
Power Output @ 1dB Compression (dBm Min.)	+4.5	+4.0	+4.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+15.0	+14.0	+14.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+16.0	+15.0	+14.0
One Tone 2nd Harmonic	+12.0	+11.0	+10.0
Rev Isolationz 5-250 MHz 250-500 MH	 +40.0 +22.0	 +38.0 +20.0	 +37.0 +20.0
Input/Output VSWR (Max.)	2:1	2:1	2:1
DC Current at +10 V (mA Max.)	+36.0	+36.5	+37.5
DC Current at -10V (mA Max.)	+36.0	+36.5	+37.5

Maximum Ratings

Ambient Operating Temperature.. -54° C to +100° C

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

Maximum Case Temperature..... +125° C

Maximum DC Voltage..... +13.0V

Maximum Continuous RF Input Power .....+13.0dBm

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

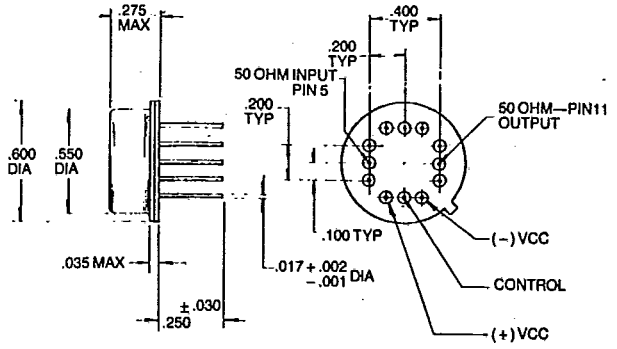
Maximum Peak Power ..... +0.5W (3 useconds Max.)

"X" Series Burn-In

Temperature .....Tc= +125° C

Weight ..... +3.2 grams Max.

Outline Drawings



LARGE TO-8 (12 PIN)

AH-5887

Typical Performance