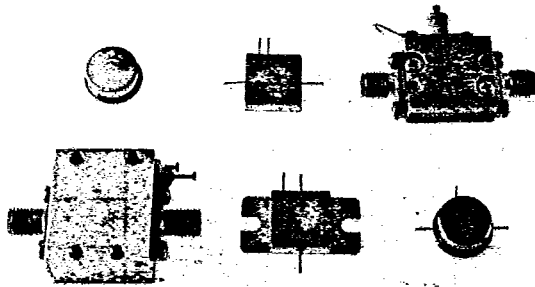


AH-5782



5 to 500 MHz TO-8 Cascadable Amplifier

- High Isolation: 35dB TYP
- 5V Operation
- Low Noise 2.5dB
- Low VSWR 1.3:1 TYP
- Transformerless Design

Electrical Specifications

Measured in a 50-ohm system at + 5 Vdc nominal

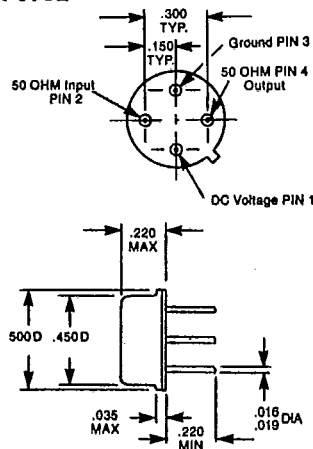
Characteristic	Typical 25° C	Guaranteed 0° C to + 50° C	Specifications -54° C to + 85° C
Frequency (MHz Min.)	5-600	5-500	5-500
Small Signal Gain (dB Min.)	+16.5	+15.0	+14.5
Gain Flatness (dB Max.)	±0.25	±0.5	±0.75
Noise Figure (dB Max.)	+2.5	+3.2	+3.6
Power Output @ 1dB Compression (dBm Min.)	+1.5	+0.5	+0.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+10.0	+7.5	+7.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+20.0	+17.5	+17.0
Rev Isolation 5-250 MHz	+45.0	+39.0	+38.0
250-500 MHz	+38.0	+33.0	+31.0
Input/Output VSWR (Max.)	1.3:1	1.6:1	1.7:1
DC Current at 5 V (mA Max.)	+15.0	+17.0	+18.0

Maximum Ratings

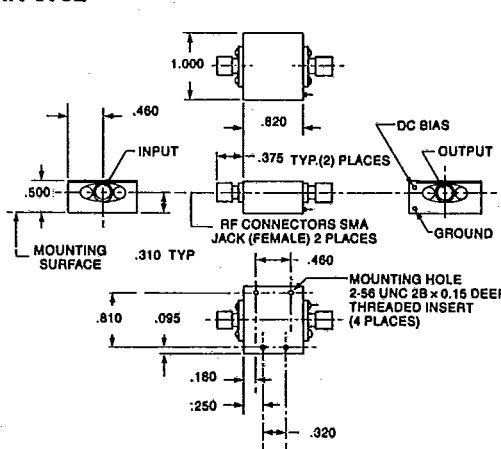
- Ambient Operating Temperature.. -54° C to +100° C
- Storage Temperature.....-62° C to +125° C
- Maximum Case Temperature..... +125° C
- Maximum DC Voltage.....+10.0V
- Maximum Continuous RF Input
Power+13dBm
- Maximum Short Term RF Input
Power +5.0 mW (1 minute Max.)
- Maximum Peak
Power +0.5W (3 useconds Max.)
- "X" Series Burn-In
TemperatureTc=+125° C
- Weight +2.5 grams Max.

Outline Drawings

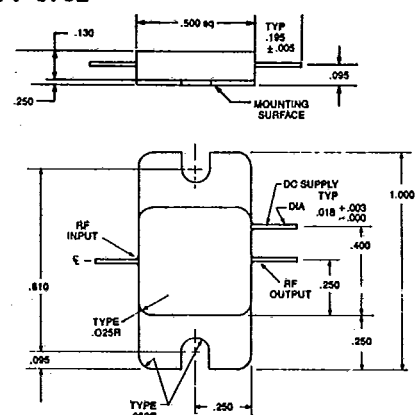
AH-5782



CAH-5782



FPF-5782



AH-5782

Typical Performance

