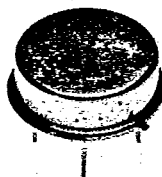


AH-5888



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

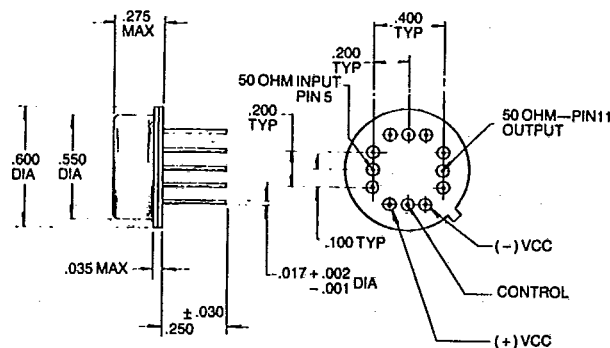
Measured in a 50-ohm system at + 10 Vdc nominal

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.)	+16.5	+16.0	+15.5
Gain Flatness (dB Max.)	±0.5	±0.5	±0.6
Noise Figure (dB Max.)	±13.2	±13.5	+14.0
Power Output @ 1dB Compression (dBm Min.)	+7.5	+7.0	+7.0
Two Tone 3rd Order Intercept Point (dBm Min.)	+17.5	+17.0	+16.0
Two Tone 2nd Order Intercept Point (dBm Min.)	+22.0	+22.0	+20.0
One Tone 2nd Harmonic	+10.0	+10.0	+9.0
Rev Isolationz			
100 MHz	+42.0	+40.0	+38.0
500 MHz	+34.0	+32.0	+30.0
Input/Output VSWR (Max.)	2:1	2:1	2:1
DC Current at +10 V (mA Max.)	+36.5	+37.0	+38.0
DC Current at -10V (mA Max.)	+42.0	+43.0	+44.0

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.....	+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-5888

Typical Performance

