AC508

5 TO 500 MHz TO-8 CASCADABLE AMPLIFIER

Typical Values	*AC508*
Medium Output Level	*+19.0 dBm*
High Third Order I.P.	*+31 dBm*

High Performance Thin Film
Standard Size TO-8 Package

SPECIFICATIONS*

Parameter	Typical	Guaranteed 0 to 50° C	Guaranteed -55 to +85° C
Frequency (Min.)	**5-600 MHz**	**5-500 MHz**	**5-500 MHz**
Small Signal Gain (Min.)	13.5 dB	13.0 dB	12.5 dB
Gain Flatness (Max.)	±0.4 dB	±0.5 dB	±0.7 dB
Noise Figure (Max.)	<4.5 dB	5.0 dB	5.5 dB
SWR (Max.) Input/Output	1.5:1	1.7:1	1.9:1
Power Output (Min.) @ 1dB comp.	+19.5 dBm	+18.0 dBm	+17.5 dBm
DC Current (Max.)	65 mA	69 mA	71 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25° C; 100 MHz	*AC508*
Second Order Harmonic Intercept Point	+52 dBm
Second Order Two Tone Intercept Point	+46 dBm
Third Order Two Tone Intercept Point	+33 dBm

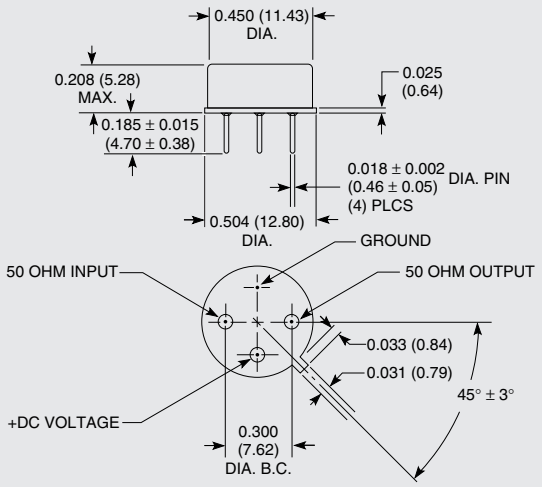
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to 125° C
Maximum Case Temperature	+125° C
Maximum DC Voltage	+19 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	100 Milliwatts
Maximum Peak Power (3 µsec Max.)	0.5 Watt
Burn-in Temperature	+105°C
Thermal Resistance[1] (θjc)	+28° C/Watt
Junction Temperature Rise Above Case (Tjc)	+31.7° C

[1] Thermal resistance is based on total power dissipation.

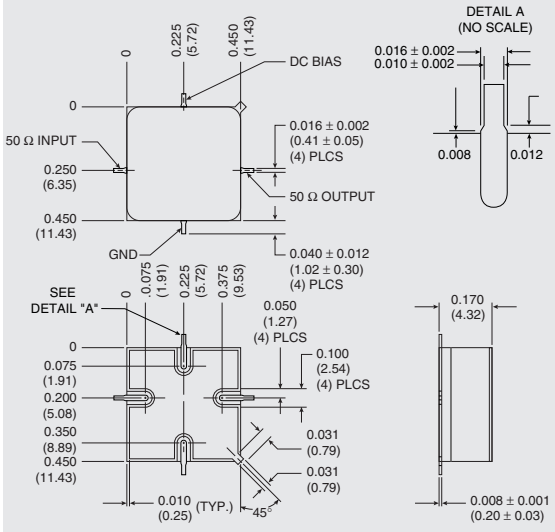
AC508

TO-8 Package for Amplifiers



AS508

SMTO-8 Package for Amplifiers



DIMENSIONS ARE IN INCHES (MILLIMETERS)