AC1582 5 TO 1500 MHz TO-8 CASCADABLE AMPLIFIER

Typical Values	*AC1582*
Medium Gain	*12.2 dB*
Medium Output Level	*+11.8 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.)	**5-1600 MHz**	**5-1500 MHz**	**5-1500 MHz**
Small Signal Gain (Min.)	12.2 dB	11.8 dB	11.0 dB
Gain Flatness (Max.)	±0.3 dB	±0.5 dB	±0.7 dB
Noise Figure (Max.)	4.2 dB	5.0 dB	5.5 dB
SWR (Max.) Input/Output	<1.5:1	1.7:1	2.0:1
Power Output (Min.) @ 1dB comp.	+11.8 dBm	+10.5 dBm	+10.0 dBm
DC Current (Max.)	29 mA	32 mA	35 mA

* Measured in a 50-ohm system at +5 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25° C; 100 MHz	*AC1582*
Second Order Harmonic Intercept Point	+40 dBm
Second Order Two Tone Intercept Point	+34 dBm
Third Order Two Tone Intercept Point	+24 dBm

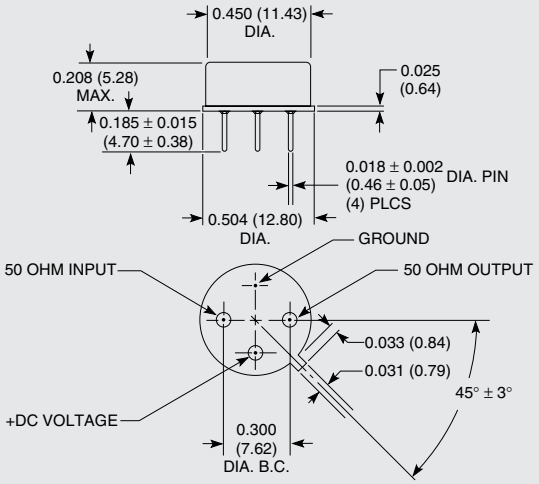
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to 125° C
Maximum Case Temperature	+125° C
Maximum DC Voltage	+10 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 µsec Max.)	0.5 Watt
Burn-in Temperature	+125°C
Thermal Resistance[1] (θjc)	+69° C/Watt
Junction Temperature Rise Above Case (Tjc)	+11.0° C

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

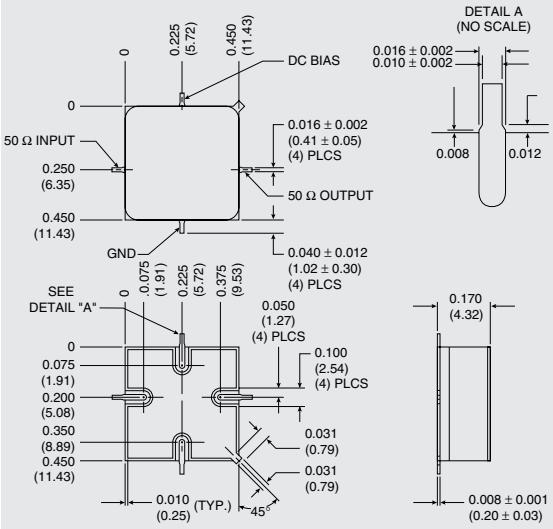
AC1582

TO-8 Package for Amplifiers



AS1582

SMTO-8 Package for Amplifiers



DIMENSIONS ARE IN INCHES (MILLIMETERS)