

AS4221

1000 TO 4200 MHz SMT0-8 CASCADABLE AMPLIFIER

Typical Values	AS4221
Low Noise Figure	1.8 dB
Medium Output Power	14.0 dB
High Performance Thin Film Standard Size SMT0-8 Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	950-4200 MHz	1000-4200 MHz	1000-4200 MHz
Small Signal Gain (Min.)	13.0 dB	12.0 dB	11.5 dB
Gain Flatness (Max.)	±0.5 dB	±0.8 dB	±1.0 dB
Noise Figure (Max.)	1.8 dB	2.3 dB	2.7 dB
SWR (Max.) Input/Output	1.7:1	2.0:1	2.0:1
Power Output (Min.) @ 1dB comp.	+14.0 dBm	+13.0 dBm	+12.5 dBm
DC Current (Max.)	40 mA	43 mA	46 mA

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

INTERMODULATION PERFORMANCE

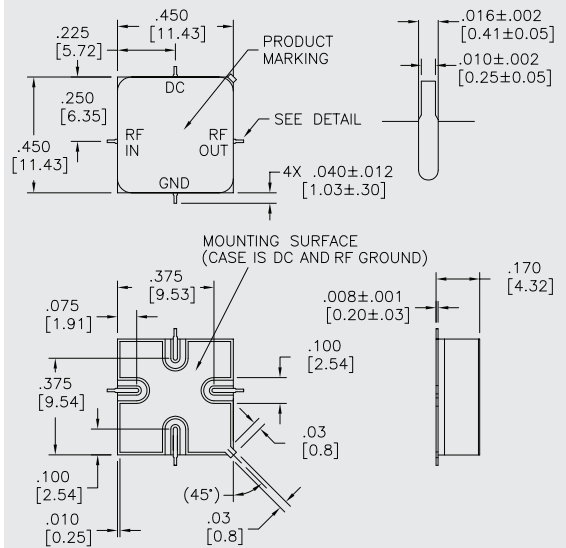
Typical @ 25 °C	AS4221
Second Order Harmonic Intercept Point	+48 dBm
Second Order Two Tone Intercept Point	+42 dBm
Third Order Two Tone Intercept Point	+26 dBm

ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +150 °C
Maximum Case Temperature	+150 °C
Maximum DC Voltage	+20 Volts
Maximum Continuous RF Input Power	+7.5 dBm
Burn-in Temperature	+125 °C
Thermal Resistance (θ _{jc})	315 °C/Watt
Junction Temperature Rise Above Case (T _{jc})	13.8 °C

AS4221

SMT0-8 Package for Amplifiers



DIMENSIONS ARE IN INCHES [MILLIMETERS]