



<b>HA8001</b>
---------------

## General Description

The HA8001 is a 1W Q-Band amplifier for high power applications in the 34GHz range.

The high gain, good flatness and high output power makes this device an ideal choice as a power amplifier in the frequency range from 33.0GHz to 35.0GHz. Optional pulse control is available with a pulse width of less than 50ns.

The device operates from  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ .

## Electrical Performance

Typical Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	33.0		35.0	GHz
Gain		45		dB
Gain Flatness		$\pm 1$	$\pm 2$	dB
Power Output@P <sub>1dB</sub>	30.0	31.0		dBm
Input VSWR		2:1		
Output VSWR		2:1		
Operating Temperature	-20		+55	$^{\circ}\text{C}$
DC Voltage		-5V/8.0		V
DC Current		0.1/1.8		A
Pulse Width (optional)		50		ns
Package	M201			
Size	31 x 29 x 8			mm

**HEAT SINK REQUIRED T<sub>max</sub>=55°C**

Rev. 1.0