

HA8003

General Description

The HA8003 is a K-Band low noise amplifier for applications in the 30GHz range.
The high gain, good flatness and low noise figure makes this device an ideal choice as a low noise amplifier for receiver applications in the frequency range from 30 GHz to 36GHz.
The device operates from –30°C to +70°C with a single supply voltage.

Electrical Performance

Typical Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	30		36	GHz
Gain	18	20	23	dB
Gain Flatness		± 1.5		dB
Noise Figure		2.7	3.0	dB
Power Output@P_{1dB}	13	15		dBm
Output IP3		19		dBm
Input Return Loss		-10	-7	dB
Output Return Loss		-15	-10	dB
OperatingTemperature	-30		+70	°C
DC Voltage		+5.0/-5.0V		V
DC Current		90		mA
Package	M202			
Size	18 x 18 x 8			mm

Rev. 1.0