

General Description

The HA5001 is a C-band power amplifier which covers the frequencies from 5.3 to 5.9 GHz with a gain of 40 dB and an output power of +44 dBm.

The amplifier uses a single supply voltage, is DC regulated and has reverse polarity protection and over heat protection.

Electrical Performance

Typical Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	5.3		5.9	GHz
Small Signal Gain		40.0		dB
Gain Flatness		± 1		dB
Power Output@P _{1dB}	+43	+44		dBm
Input VSWR		1.5 : 1	2 : 1	
Output VSWR		1.5 : 1	2 : 1	
Temperature Range	-30		+55	°C
DC Voltage	11.5	12.0	13.0	V
DC Current		10		A
Connectors	SMA female			
Size (without heat sink)	200 x 100 x 30			mm

Rev. 1.0