



HA6012

General Description

The HA6012 is a very broadband high power amplifier modul for broadband applications.

The high gain and high output power makes this device an ideal choice as a high power amplifier for transmitters in the frequency range from 2.0GHz to 18.0GHz. It includes a power monitor output for transmitted power, temperature sensor and reverse polarity protection.

The device operates from -10°C to $+40^{\circ}\text{C}$.

Electrical Performance

Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	2.0		18.0	GHz
Gain		32.0		dB
Gain Flatness		± 1.0		dB
Power Output@P _{1dB} 2.0GHz – 15.0GHz	29			dBm
Power Output@P _{1dB} 15.0GHz – 18.0GHz	28			dBm
Input Reflection			-10	dB
Output Reflection			-10	dB
Operating Temperature Range	-10		+40	$^{\circ}\text{C}$
DC Voltage		+12.0		V
DC Current			2.0	A
Package	145mm x 105mm x 30mm			

Rev. 1.0

Base Plate Temperature $<40^{\circ}\text{C}$ required