



HA6010

General Description

The HA6010 is a high power amplifier modul for applications in Ku-Band.

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 14.0GHz to 16.0GHz. It includes two differential output voltage power monitors for transmitted and reflected power, gain/power control, temperature sensor, reverse polarity and output short circuit protection.

The device operates from -40°C to $+60^{\circ}\text{C}$.

Electrical Performance

Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range	14.0		16.0	GHz
Gain		40.0		dB
Gain Flatness		± 2.0		dB
Power Output@P _{sat}	2.5	3.5		W
Input Reflection		-12.0	-10	dB
Output Reflection		-12.0	-10	dB
Operating Temperature Range	-40		+60	$^{\circ}\text{C}$
DC Voltage		+12.0		V
DC Current			4.0	A
Package	101mm x 91mm x 27mm; watertight IEC 529 IPX5			

Rev. 1.0

Base Plate Temperature $<60^{\circ}\text{C}$ required