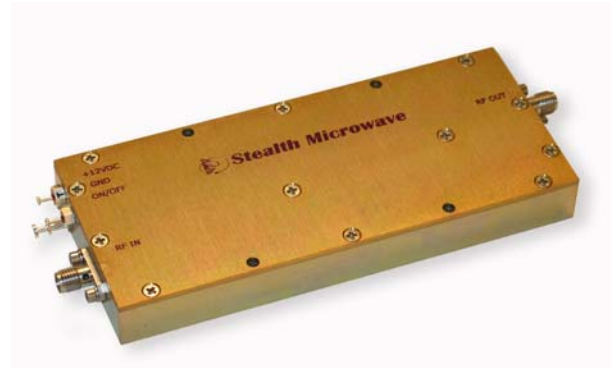


The **SM1720-34HS** is a solid state GaAs amplifier designed primarily for the PCS (Personal Communications Systems) market. This amplifier operates from 1700-2000 MHz, provides 33 dB of gain, ± 0.5 dB gain flatness over the full band, and +34 dBm of output power at the 1 dB compression point. This highly linear design provides an output third order intercept point of +47 dBm. The amplifier operates off a single supply of +12V (+10V available as an option) and 1.2 A typical. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.



Features

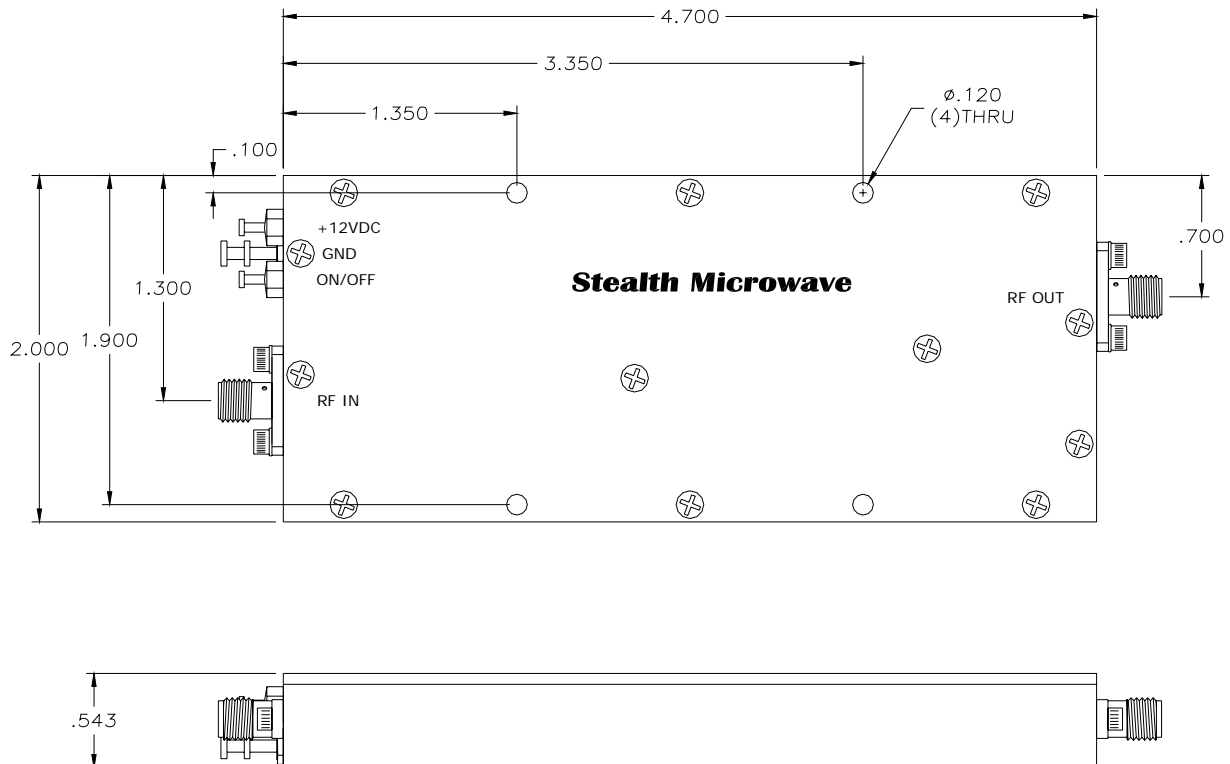
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset

Options

- Logic On/Off Control
- Heatsink
- Single DC Supply of +10V

Parameter	Specification
Frequency Range	1700 - 2000 MHz
Pout (P1dB)	+ 34 dBm
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	33 dB \pm 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16dB
DC Input Voltage	+12 Volts (+10 V available)
DC Input Current	1.2 Amps (typ.) 1.4 Amps (max.)
Mechanical Dimensions	4.7x2.0x.54 inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	-3 dBm typ.
RF Output	Output Connector (SMA Female)	+ 34 dBm @ P1dB
GND	Ground Turret	---
+10 VDC	DC Input Voltage	+ 12 Volts @ 1.2 Amps
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

Specifications subject to change without notice.