Model SM08010-42

800-1000 MHz
12 Watt Linear Power Amplifier
GSM APPLICATIONS

The **SM08010-42** is a solid state GaAs FET amplifier designed for the Cellular/Global Standard for Mobile (GSM) market. This amplifier operates from 800 – 1000 MHz, provides 50 dB of gain, ± 0.5 dB gain flatness over the full band, and +42 dBm of output power at its 1 dB compression point. The output third order intercept point is +52 dBm. Its compact size and high linearity make it ideally suited for systems using CDMA or TDMA standards.

Features

- Mis-Match Protected
- Temperature compensation
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

Options

- Logic On/Off Control
- Forward Power Detector
- Fan
- Heatsink

Configurations

- Module
- Bench-Top Lab Unit
- 19” Rack

Parameter	Specification
Frequency Range	800 - 1000 MHz
Pout (P1dB)	+ 42 dBm
Pout (Psat)	+ 43 dBm
Third Order Intercept Point	+ 52 dBm (typ.)
Linear Gain	50 dB ± 1 dB
Gain Flatness over Full Band	± .5 dB
Input / Output Return Loss	-14 dB / -16 dB
DC Input Voltage	+ 12 Volts
DC Input Current	6.0 Amperes (Varies per application)
Mechanical Dimensions Without Heatsink	6.7 x 4.0 x 0.8 Inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0ºC to +85ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

Specifications subject to change without notice

1007 Whitehead Road Ext., Trenton, NJ 08638
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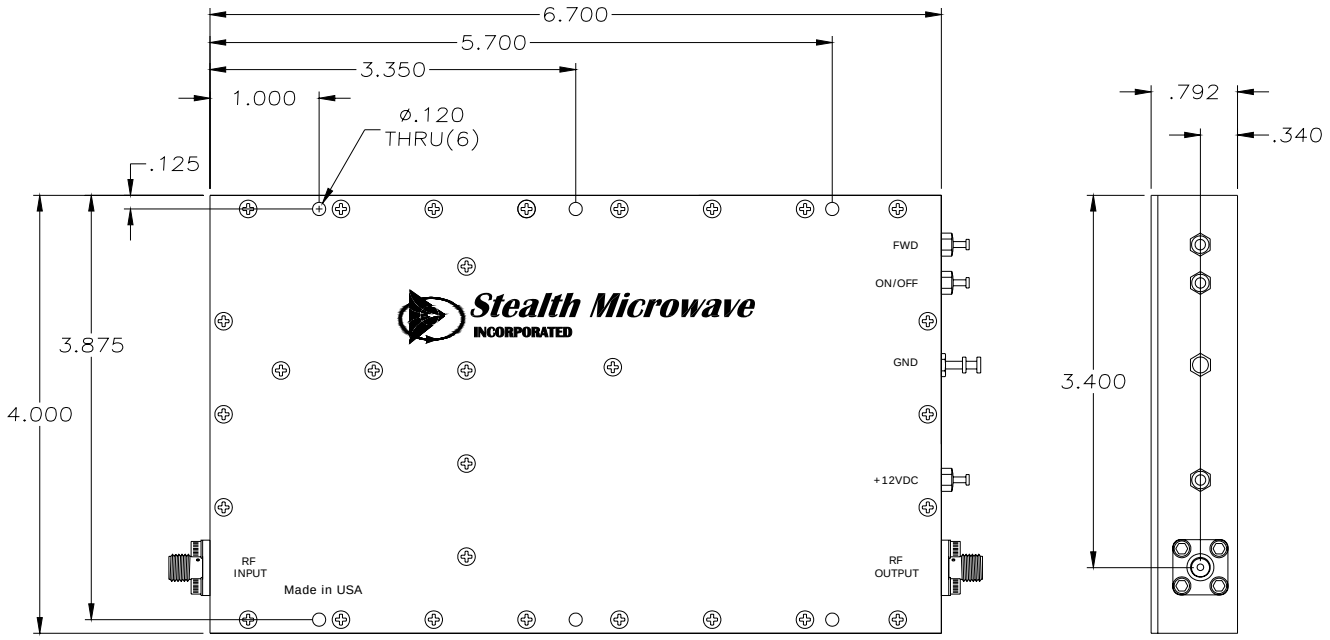
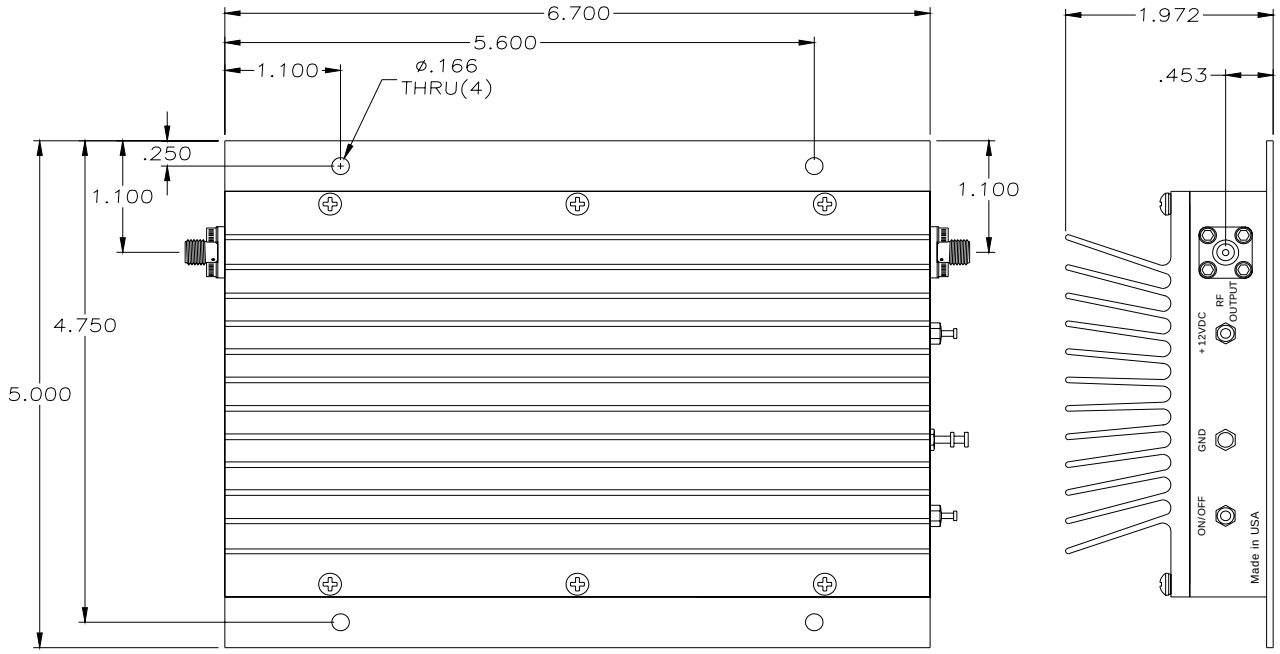
DIMENSIONS IN INCHES



HEATSINK OPTION



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Pin	Description	Values
RF Input	Input Connector (SMA Female)	-6 dBm max
RF OUT	Output Connector (SMA Female)	+42 dBm @P1dB
FWD	Forward Power Detection	2.5V @ +35 dBm Pout
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 6.0 Amperes (typ.)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

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