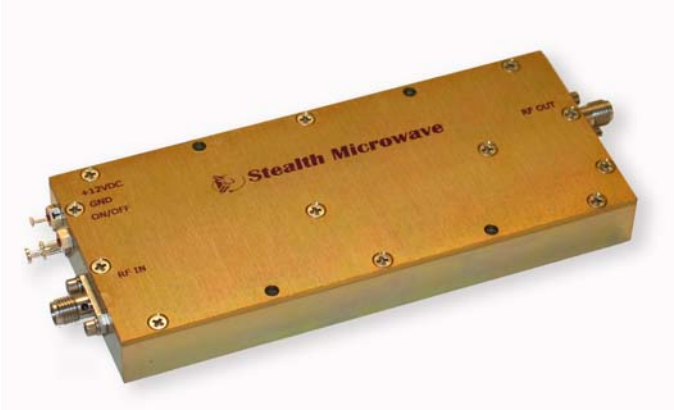
Stealth Microwave
INCORPORATED

Model SM04093-36HS

400-925 MHz
4 Watt Linear Power Amplifier

Model **SM04093-36HS** is an affordable solid state GaAs amplifier designed for various wireless applications. **With 525 MHz of instantaneous bandwidth**, the amplifier can be used in multiple wireless and military applications. This module provides 34 dB of linear gain, +36 dBm of output power at P1dB, and an OIP3 of +50 dBm. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.



Features

- Mis-Match Protected
- Over Voltage Protection
- Thermal Protection with Auto Reset

Options

- +10 VDC Operation
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- Laboratory Unit
- 19” Rack

Parameter	Specification
Frequency Range	400 – 925 MHz
Pout (P1dB)	+ 36 dBm (min.) + 37 dBm (typ.)
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	34 dB ± 1.0 dB
Gain Flatness over Full Band	± .5 dB
Input/Output Return Loss	-11 dB / -10 dB
DC Input Voltage	+12 Volts (+10 Volts Optional)
DC Input Current	1.6 Amperes (typ.)
Mechanical Dimensions (Without Heatsink)	4.7 x 2.0 x .54 inches
RF Connectors	SMA Female
Operating Temperature	0ºC to +55ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

1007 Whitehead Road Ext., Trenton, NJ 08638
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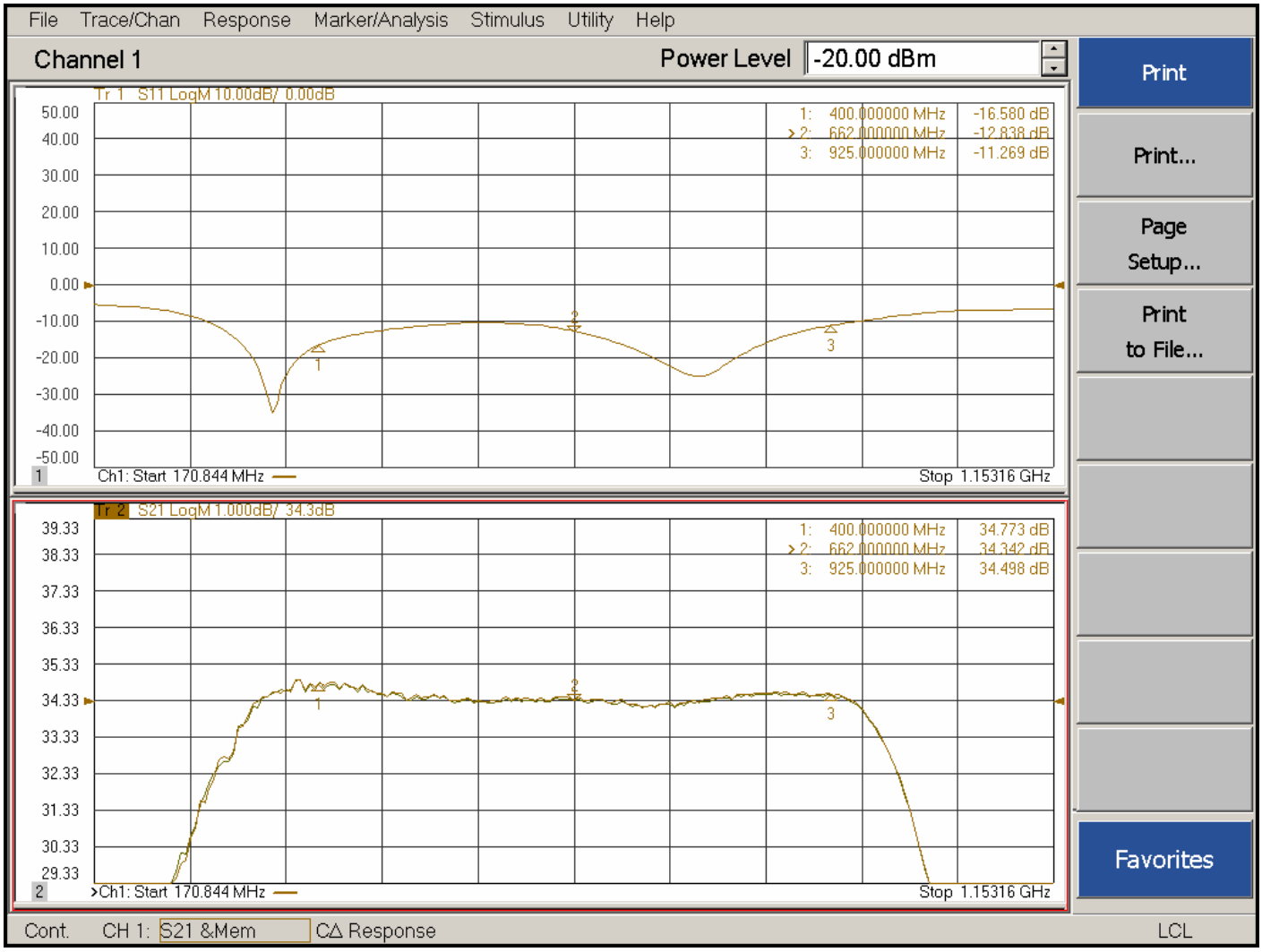
S_{11} / S_{21} RESPONSE



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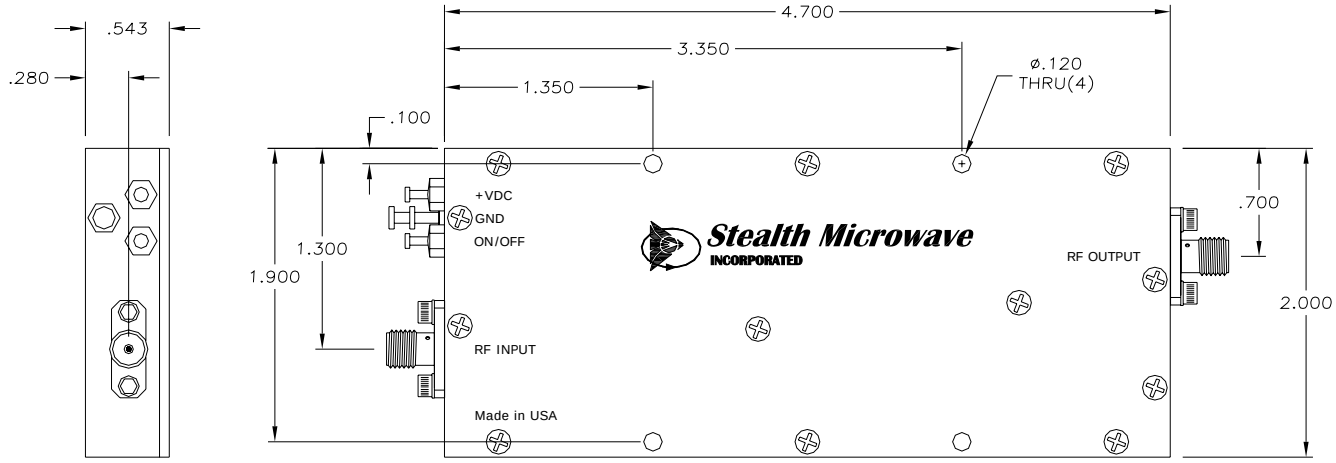
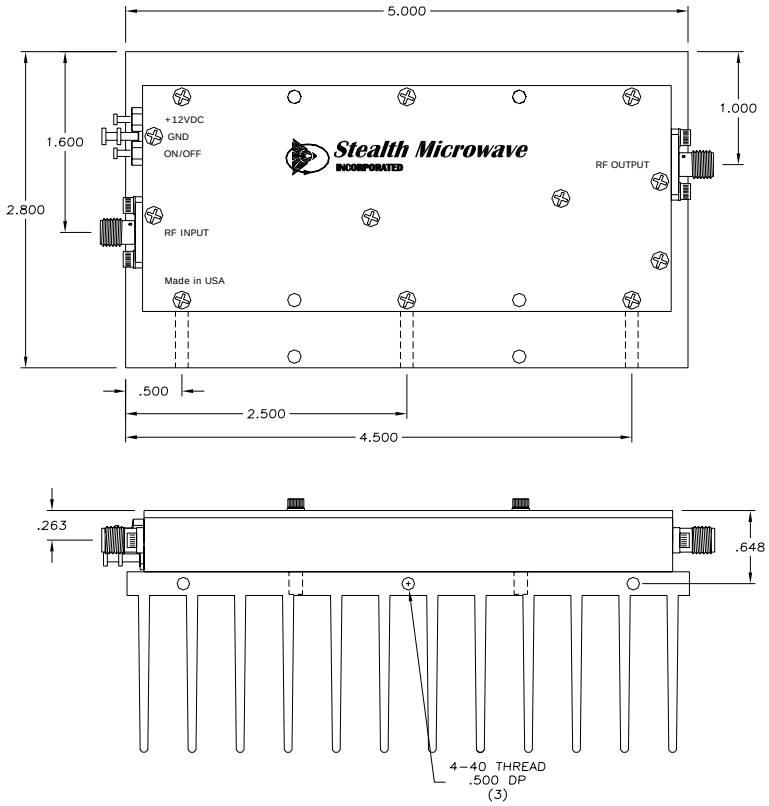
DIMENSIONS IN INCHES



HEATSINK OPTION



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Pin	Description	Values
RF Input	Input Connector (SMA Female)	+1 dBm (typ.)
RF Output	Output Connector (SMA Female)	+ 36 dBm (min) @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 1.6 Amperes
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

Specifications subject to change without notice.

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