

### 3.1 – 3.5 GHz 10 W Solid State Power Amplifier

#### FEATURES

- Psat: 40dBm
- NF: 4.0dB
- Small Signal Gain: 45dB
- Bias Condition: 12V / 5A

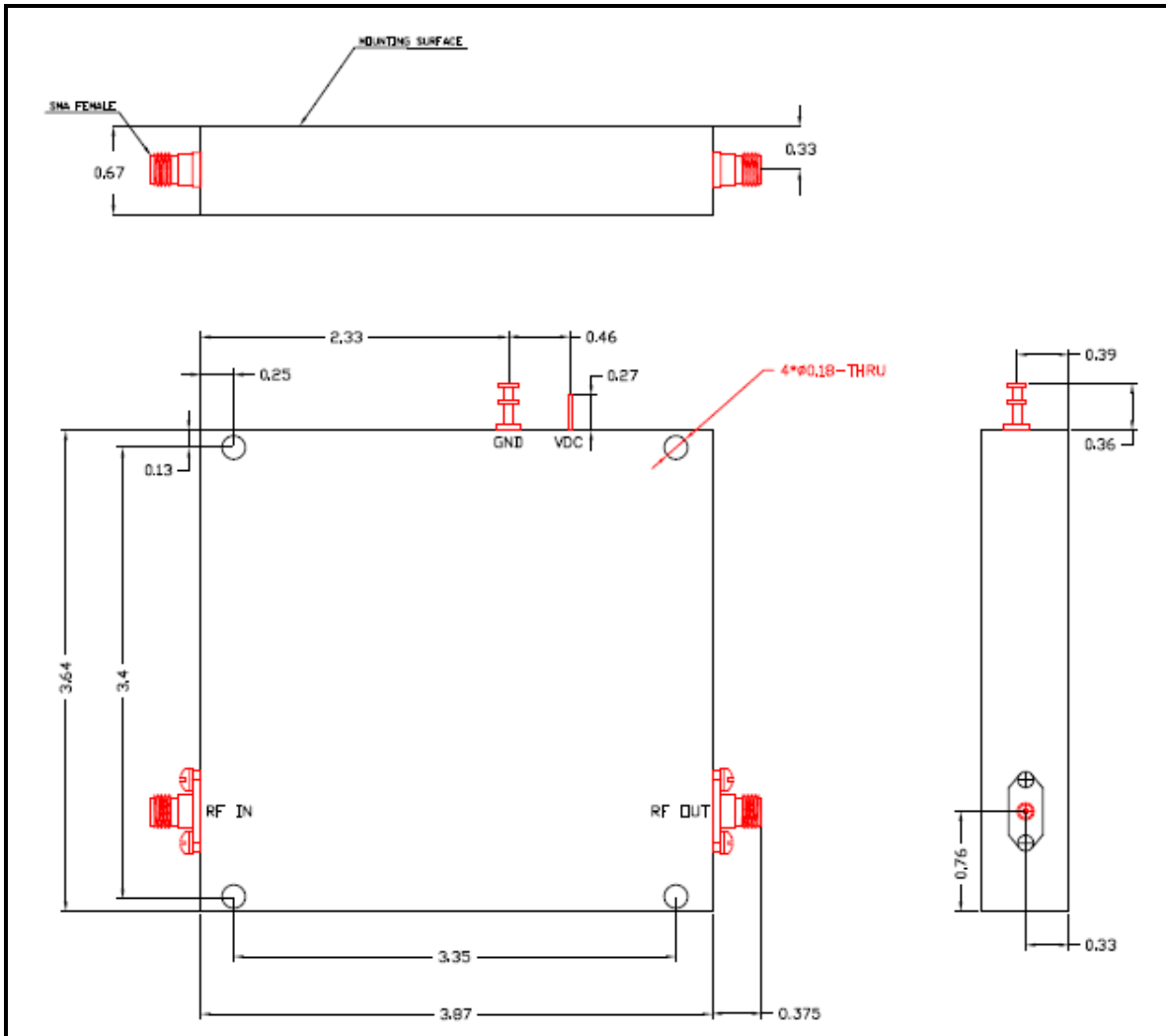
#### DESCRIPTION

The TA031-035-43-40 is a 10W power amplifier designed for operation in the 3.1 to 3.5 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity and high gain. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires a +12V DC power supply.

#### ELECTRICAL SPECIFICATIONS at 25 °C

Symbol	Description	Min.	Typ.	Max.	Unit
<b>FREQ</b>	Frequency Range	3.1		3.5	GHz
<b>SSG</b>	Small Signal Gain	43	45		dB
<b>GOF</b>	Small Signal Gain Flatness			± 1.5	dB
<b>NF</b>	Noise Figure		4		dB
<b>Psat</b>	Saturated Output Power @ rated Pin	+40			dBm
<b>Pin</b>	Rated Input Power		0		dBm
<b>VSWR, IN</b>	Input VSWR		1.7:1	2: 1	-
<b>VSWR, OUT</b>	Output VSWR		1.7:1	2: 1	-
<b>VDC</b>	DC Supply Voltage (with built-in regulator)	+12		+15	Volt
<b>IDC</b>	Current Supply			5	A
<b>OTR</b>	Operating Temperature Range	-10		+60	°C

**CASE: HA2B, as shown on page 2.**



Unit: inch

RF In/Out Connector : SMA Female

DC : soldered feed through pin