

3.1 – 3.5 GHz 20W Amplifier

FEATURES

- Pout: 43 dBm
- NF: 3.5 dB max.
- Small Signal Gain: 47 dB
- Bias Condition: 12 V / 9 A

DESCRIPTION

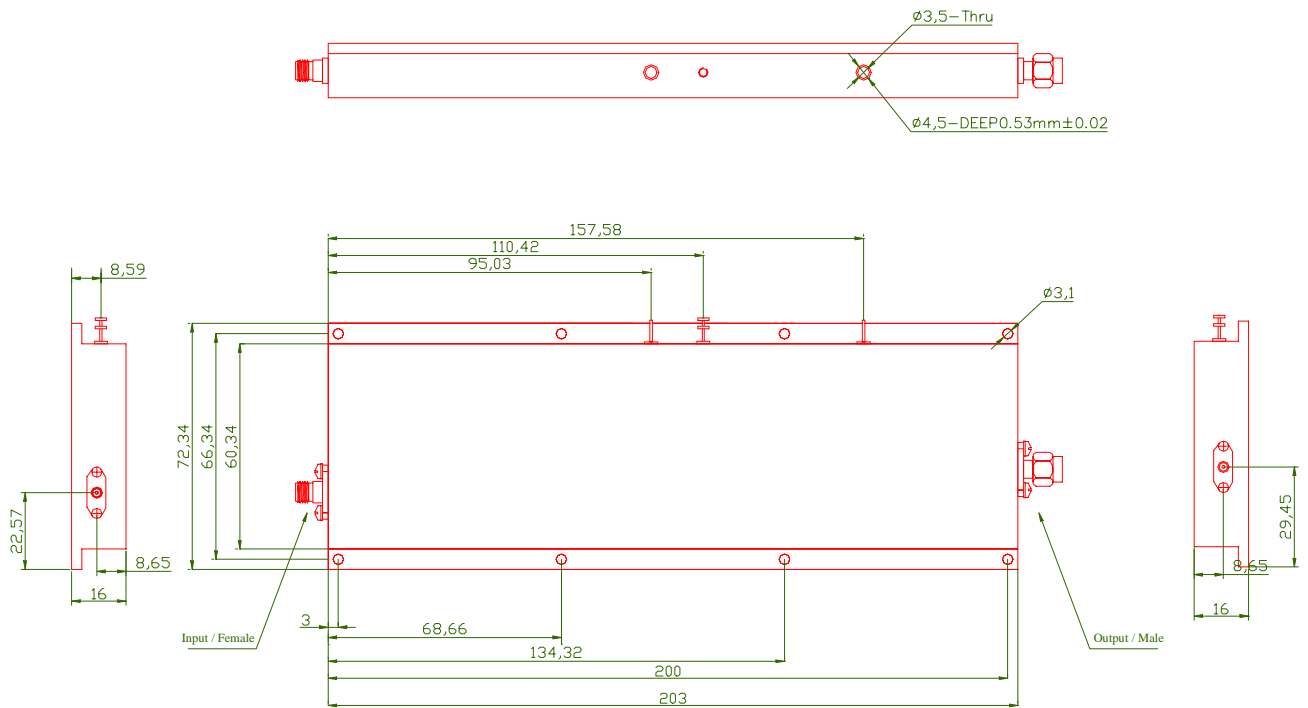
The TA031-035-43-43 is a 20W power amplifier designed for operation in the 3.1 to 3.5 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity and high gain. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires a +12V DC power supply.

ELECTRICAL SPECIFICATIONS at 25 °C

Symbol	Description	Min.	Typ.	Max.	Unit
FREQ	Frequency Range	3.1		3.5	GHz
SSG	Small Signal Gain	43	47*		dB
GOF	Small Signal Gain Flatness			± 1.5	dB
NF	Noise Figure			3.5	dB
Pout	Output Power @ Pin= -3dBm	42			dBm
VSWR, IN	Input VSWR		1.7:1	2: 1	-
VSWR, OUT	Output VSWR		1.7:1	2: 1	-
VDC	DC Supply Voltage		12		Volt
IDC	Current Supply		9		A
OTR	Operating Temperature Range	-10		50	°C
Fault Indicator	Fault Indication	RF Input > -3dBm RF Output < 40dBm			-

* Actual gain and current depend on configuration.

CASE: HA9



Unit: mm