TRANSCOM

TA031-035-43-43

REV0_20040412

3.1 – 3.5 GHz 20 W 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 (with built-in regulator)**		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

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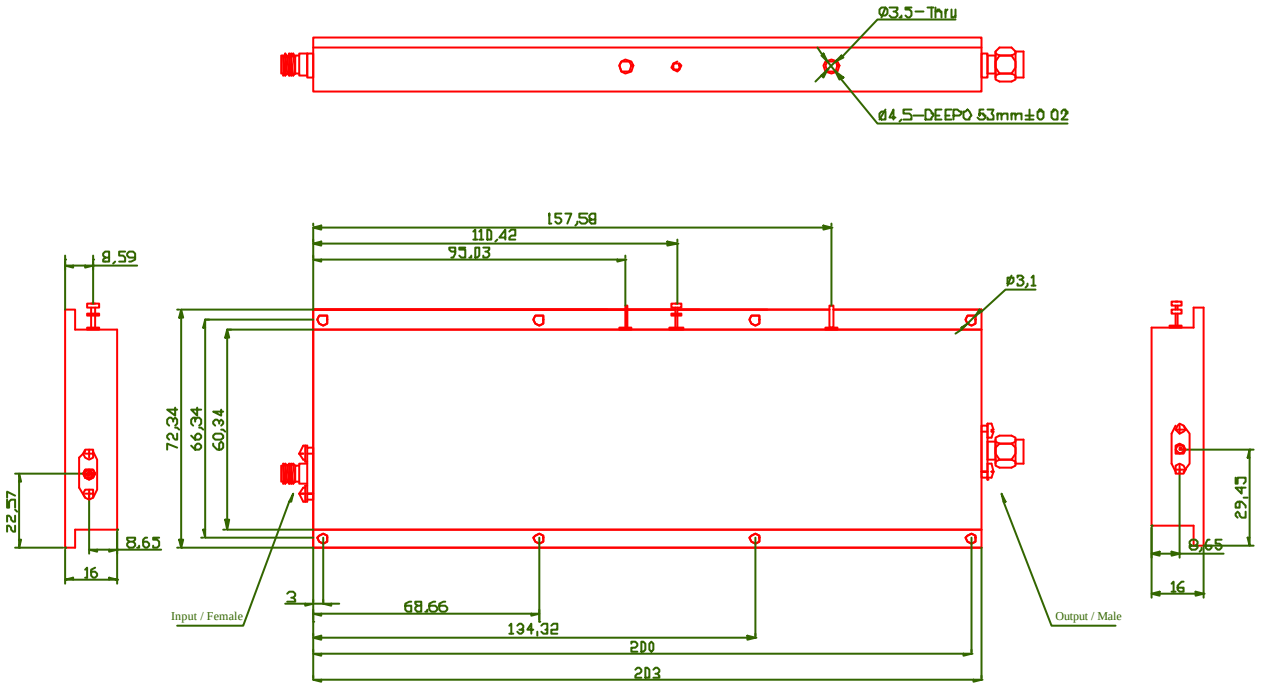
Ø3.5-Thru
Ø4.5-DEEP0.53mm±0.02
157.58
110.42
95.03
8.59
Ø3.1
72.34
66.34
60.34
22.57
8.65
16
3
68.66
134.32
200
203
Input / Female
Output / Male
29.43
9.65
16

Unit: mm