

2.5 – 3.5 GHz 2W Amplifier

FEATURES

- P₋₁ dB: 33 dBm min.
- NF: 4.8 dB max.
- Small Signal Gain: 32 dB typ.
- Bias Condition: 15 V / 1.5 A max.

DESCRIPTION

The TA025-035-31-33 is a 33 dBm power amplifier designed for operation in the 2.5 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 +15V DC power supply.

ELECTRICAL SPECIFICATIONS at 25 °C

Symbol	Description	Min.	Typ.	Max.	Unit
FREQ	Frequency Range	2.5		3.5	GHz
SSG	Small Signal Gain	31	32		dB
GOF	Small Signal Gain Flatness			± 0.7	dB
NF	Noise Figure			4.8	dB
P₋₁ dB	Output Power at 1 dB Gain Compression	33	33.5		dBm
Isolation	Reverse Isolation	42	50		dBc
VSWR, IN	Input VSWR		1.7:1	2: 1	-
VSWR, OUT	Output VSWR		1.7:1	2: 1	-
VDC	DC Supply Voltage		15		Volt
IDC	Current Supply			1.5	A
OTR	Operating Temperature Range	-30		60	°C

* Actual gain and current depend on configuration.

CASE: HA1