

2.1 - 3.5 GHz 15 dBm Amplifier

FEATURES

- P₁ dB: 15 dBm
- NF : 2.2 dB
- Small Signal Gain: 32 dB



DESCRIPTION

The TA021-035-32-15 is a 15 dBm medium power amplifier designed for operation in the 2.1 to 3.5 GHz frequency range. This amplifier provides high gain and low noise figure. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires only a +15V DC power supply.

ELECTRICAL SPECIFICATIONS (Ta = 24 °C)

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
FREQ	Frequency Range	2.1		3.5	GHz
GOF	Small Signal Gain Flatness			+/- 0.5	dB
SSG	Small Signal Gain	31	32	35	dB
NF	Noise Figure			2.2	dB
P ₁ dB	1 dB Compression Power	15			dBm
IP3	Third Order Intercept Point		27		dBm
IPH	Input Power Handling			20	dBm
VSWR, IN	Input VSWR			1.9:1	-----
VSWR, OUT	Output VSWR			1.9:1	-----
VDC	DC Supply Voltage		15		Volt
IDC	Current Supply			275	mA

Case: HC51