

16 - 18 GHz 27 dBm Amplifier

FEATURES

- Noise Figure: 3.5 dB
- P_{1dB}: 27 dBm
- Small Signal Gain : 25 dB
- Bias Condition: 800 mA @ 15 V

DESCRIPTION

The TA160-180-25-27 is a 27 dBm power amplifier designed for operation in the 16 to 18 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 = 25 ° C)

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNITS
FREQ	Frequency Range	16		18	GHz
SSG	Small Signal Gain	25			dB
GOF	Small Signal Gain Flatness		± 0.5	± 0.75	dB
NF	Noise Figure		3.5		dB
P_{1dB}	Output Power at 1 dB Gain Compression	27			dBm
VSWR, IN	Input VSWR			2:1	-----
VSWR, OUT	Output VSWR			2:1	-----
Vdc	DC Supply Voltage (with built-in regulator)		15		Volt
Idc	Current Supply		0.8		A
OTR	Operating Temperature Range	-30		60	° C

CONNECTOR : SMA Female, Removable

CASE : HD7