

5 – 6.2 GHz 27.5 dBm Amplifier

FEATURES

- P₁dB: 27.5 dBm
- Noise Figure: 7 dB
- Bias Condition: 500mA @ 12 V
- Small Signal Gain: 42.5 dB

DESCRIPTION

The TA050-062-45-27 is a 27.5 dBm power amplifier designed for operation in the 5 to 6.2 GHz frequency range. This amplifier provides high gain. High efficiency operation is achieved by using hybrid MIC designs and advanced GaAs PHEMT devices. The amplifier requires only a +12V DC power supply.

ELECTRICAL SPECIFICATIONS at 25 ° C

Symbol	Description	Min.	Typ.	Max.	Unit
FREQ	Frequency Range	5		6.2	GHz
SSG	Small Signal Gain	40	42.5	45	dB
GOF	Small Signal Gain Flatness		± 0.7	± 1	dB
P ₁ dB	Output Power at 1 dB Gain Compression	27.5			dBm
NF	Noise Figure			7	dB
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			500	mA
OTR	Operating Temperature Range	-20		75	°C

-RF I/P & O/P Connectors: SMA Female (removable)

-CASE: HT51