TRANSCOM

TA050-062-45-27

REV1_20040412

5 – 6.2 GHz 27.5 dBm Amplifier

FEATURES

- P_{-1} dB: 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

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