

5.3 – 5.9 GHz Low Noise Amplifier

FEATURES

- P₁dB: 10 dBm
- Noise Figure: 1 dB
- IP3: 20 dBm
- Bias Condition: 90 mA @ 12 V
- Small Signal Gain: 22 dB



DESCRIPTION

The TA053-059-22-10 is a low noise amplifier designed for applications in the 5.3 to 5.9 GHz frequency range. This amplifier utilizes low noise devices that provide excellent noise figure. 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	5.3		5.9	GHz
SSG	Small Signal Gain	22			dB
GOF	Small Signal Gain Flatness		± 0.5	± 0.75	dB
P ₁ dB	Output Power at 1 dB Gain Compression	10			dBm
IP3	Third Order Intercept Point		20		dBm
NF	Noise Figure		1.0	1.1	dB
VSWR, IN	Input VSWR		1.5:1	1.7:1	-
VSWR, OUT	Output VSWR		1.5:1	1.7:1	-
VDC	DC Supply Voltage (with built-in regulator)		12		Volt
IDC	Current Supply		90	110	mA
OTR	Operating Temperature Range	-30		60	°C

CASE: HG2

Note: The previous product part number of TA053-059-22-10 is TC5561G.