

5.3 – 5.9 GHz 4 W Amplifiers

FEATURES

- P.1dB: 36 dBm
- Noise Figure: 4.5 dB
- IP3: 44 dBm
- Bias Condition: 2400 mA @ 12 V
- Small Signal Gain: 38 dB

HE HIV OUT GND STRANSCOM, INC. MODEL NO. TC5561J DATE CODE 0147 SERIAL NO. 0001 RF

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DESCRIPTION

The TA053-059-38-36 is a 4 W power amplifier designed for high linearity applications in the 5.3 to 5.9 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity, high gain and wide dynamic range. 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.	Тур.	Max.	Unit
FREQ	Frequency Range	5.3		5.9	GHz
SSG	Small Signal Gain	38*			dB
GOF	Small Signal Gain Flatness		±0.5	± 0.75	dB
P.1 dB	Output Power at 1 dB Gain Compression	35.5	36		dBm
IP3	Third Order Intercept Point	44	45		dBm
NF	Noise Figure		4.5	5	dB
	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		2.4	2.5	А
OTR	Operating Temperature Range	-30		60	°C

* Actual gain and current depend on configuration.

CASE: HA1

Note: The previous product part number of TA053-059-38-36 is TC5561J.