RF LOW NOISE AMPLIFIER

HS-MX2458GT

2.4 / 5.8 GHz Dual-Band Low Noise Amplifier

2.4 & 5.8 GHz · 30 dB gain · 0.8–1.2 dB NF · 5–30 V



The HS-MX2458GT is a dual-band low noise amplifier for 2.4 GHz and 5.8 GHz receiver front-ends. It provides 30 dB typical gain with 0.8 dB noise figure at 2.4 GHz and 1.2 dB at 5.5 GHz.

The CNC-milled aluminium housing with conductive oxidation provides EMI shielding, and the wide 5–30 V supply range simplifies integration into existing RF systems.

KEY FEATURES

- Dual-band operation at 2.4 GHz and 5.8 GHz
- 30 dB typical gain, ±0.5 / ±1 dB flatness
- Noise figure 0.8 dB (2.4 GHz) / 1.2 dB (5.5 GHz)
- Output power 15 dBm at 2.4 GHz, 17 dBm at 5.8 GHz
- Wide 5–30 V supply
- SMA-F connectors, aluminium housing

AT A GLANCE

Parameter	Value
Frequency range	2400 / 5000 · 2500 / 5945 · MHz
Gain	29 · 30 · 31 · dB
Gain flatness (2.4 GHz)	±0.5 · dB
Gain flatness (5.5 GHz)	±1 · dB
Output power (2.4 GHz)	15 · dBm
Output power (5.8 GHz)	17 · dBm

APPLICATIONS

- RF receiver front-ends
- Wireless communication systems 2.4 / 5.8 GHz
- Spectrum monitoring and radio management
- EMC receiver testing
- Scientific research instrumentation

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ELECTRICAL SPECIFICATIONS

Parameter	Min	Typ	Max	Unit
Frequency range	2400 / 5000	—	2500 / 5945	MHz
Gain	29	30	31	dB
Gain flatness (2.4 GHz)	—	±0.5	—	dB
Gain flatness (5.5 GHz)	—	±1	—	dB
Noise figure (2.4 GHz)	0.6	0.8	0.9	dB
Noise figure (5.5 GHz)	0.9	1.2	1.4	dB
Output power (2.4 GHz)	—	15	—	dBm
Output power (5.8 GHz)	—	17	—	dBm
Input VSWR	—	—	2:1	—
Output VSWR	—	—	2:1	—
Impedance	—	50	—	Ohm
Input power (CW)	—	−15	—	dBm
Supply voltage	12	—	30	V
Operating current @ 28 V	0.3	0.35	0.4	A
Operating temperature	−40	+25	+65	°C
Storage temperature	−40	+25	+85	°C
Weight	—	63	—	g

• RF connectors: SMA-F. Housing: CNC-milled aluminium alloy with conductive oxidation.
• Measured gain and noise-figure data are available on request.

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COMMERCIAL INFORMATION

ORDERING & CUSTOMISATION

MOQ	10 units for standard models; confirmed for custom configurations
Lead time	2–4 weeks for standard models; confirmed for custom or volume orders
Payment	T/T; other terms by agreement
Samples	Evaluation samples available
Customisation	Firmware configuration, connector, cable assembly, labelling and packaging to your specification

PACKING & DELIVERY

Packing	Anti-static bag, foam and export carton; palletised on request
Shipping	Express (DHL / FedEx / UPS), air freight or sea freight — quoted per order
Origin	Xi'an, China
Documentation	Datasheet, user manual, pinout and test data on request

QUALITY, COMPLIANCE & SUPPORT

- Designed and tested against the applicable IEC / ITU-R / NMEA standards for the product family
- Functional test and calibration before shipment
- CE / FCC / CCS certification in progress for selected models
- Standard warranty against manufacturing defects; period confirmed per product
- Technical documentation and configuration tools supplied for integration
- Engineering support for custom firmware, connectors and cabling

ABOUT HAISITEK

Founded in Xi'an in April 2015, Haisi Measurement and Control Technology Co., Ltd. develops and manufactures MEMS inertial sensors, inertial navigation systems and AIS communication products. In-house R&D covers sensor calibration, full-temperature compensation, RF design and embedded firmware.

- In-house R&D, calibration and production
- Full-temperature calibration and compensation
- Custom configuration, connectors and cabling
- Documentation and integration support

RELATED PRODUCTS

HS-MX1100GT
1–10 GHz Ultra-Wideband Low Noise Amplifier

HS-MX11G3GT
5 MHz–1.3 GHz 2 W Broadband RF Power Amplifier

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Inertial sensors, IMU / INS and AIS modules since 2015.

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