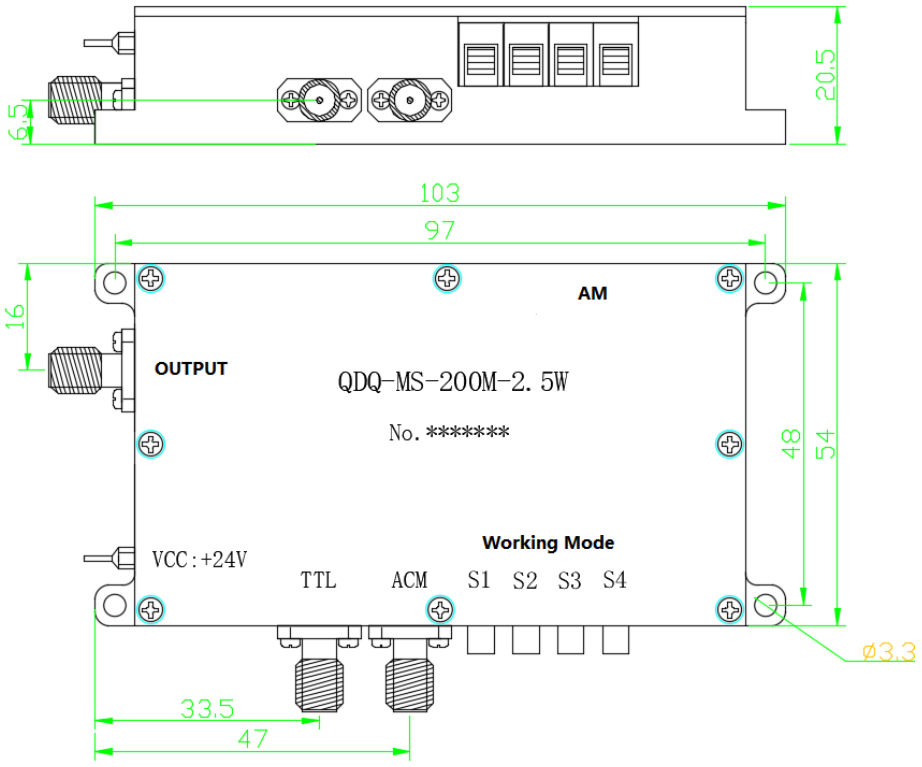
QDQ-MS-200M-2.5W Fixed Frequency Driver

Product Description

The signal frequency of QDQ-MS-200M-2.5W type fixed frequency driver is 200MHz, and the output power is greater than 2.5W. It has TTL and Analog control modes, and the two modes can work independently or in a mixed mode. The product has the characteristics of adjustable output power, compact size, lightweight, excellent indicators, stable performance and high reliability.

Mechanical Dimensions



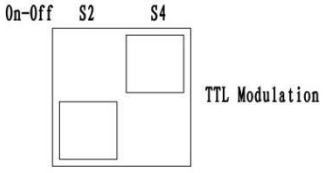
Serial ports description

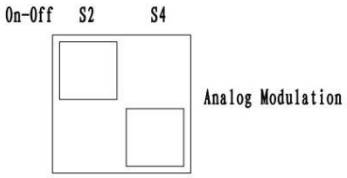
1. OUTPUT: RF output port. Please connect to AOM.
2. ACM: Receive analog modulation signal. Please connect to external function signal generator.
3. 24V DC: Driver operating voltage. Please connect to an external 24V DC power supply.
4. TTL: Receive square wave or pulse modulation signal. Please connect to external function signal generator.
5. Prf: Control the RF output power of the drive power supply. It has been adjusted before leaving the factory, please do not need to adjust.
6. S1.S2.S3.S4 dial code: control the working mode of the RF driver.

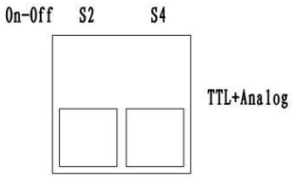
Product Specification

Output signal frequency	200MHz
Output signal frequency stability	±20ppm
Output signal frequency temperature stability	±20ppm
Output signal power	≥2.5W（Or Specify）
Analog control signal level	0 to 5V
Digital control signal level	TTL
Isolation(Only analog mode)	≥30dB
Isolation(Only TTL mode)	≥70dB
Working voltage	DC +24V±0.5V

Working Mode Control







S1: Turn switch down to TTL high level, up to TTL low level.

S2: Turn switch down for TTL digital mode valid, up for TTL digital mode invalid.

S3: Turn switch down for ACM input range is 0~1V, up for ACM input range is 0~5V.

S4: Turn switch down for ACM simulation mode valid, up for ACM simulation mode invalid.

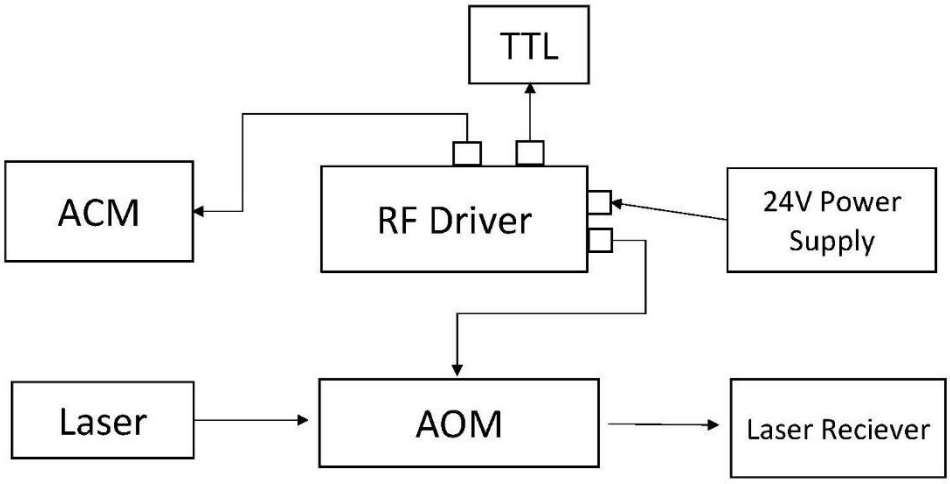
Interfaces

Signal output	SMA-K
Signal input	SMA-K
Power supply	Feedthrough capacitor
Output power adjustment	Ø3mm (Slotted multi-turn potentiometer)

Limit parameters (Exceeding the limit parameters will cause permanent damage to the product!)

Operating Voltage	+25V
Control signal level	0 to +5.5V
Storage temperature	-40~+85℃
Operating temperature	0~+60℃

Connection diagram



Usage and Notification

a. The product heat dissipation method is conduction heat dissipation. The product should be installed on the metal structure with fixing screws, and the installation surface should be flat and have a certain size and thickness. A certain amount of space should be reserved around and above the product to dissipate heat.

b. The product uses +24V DC power supply, and the power connector uses a through-core capacitor; during installation, connect the core of the through-core capacitor to the positive pole of the power supply, and connect the ground plate of the through-core capacitor to the negative pole of the power

supply through a wire.

c. The characteristic impedance of the product signal output port is 50ohm.

d. Do not turn on the power when the signal output interface is open or short-circuited, which may damage the product.

e. Ensure that the product is well grounded, otherwise it will have an impact on product performance.

f. The product could receive both external single analog and single digital modulation.

g. The output power adjustment is realized by changing the resistance value of the slotted multi-turn potentiometer. Turn the potentiometer clockwise to adjust the terminal, the output power will increase, and the counterclockwise rotation will decrease. The adjustment range of the output power is greater than 15dB.

h. The product is sensitive to static electricity. Pay attention to static electricity protection during use.