Fixed Frequency driver up to 30 Watts

QMODP2Axx, QMODP2AAxx

Product Overview

These drivers based on quartz oscillators, produce a fixed stable and accurate RF frequency signal. The built-in amplifier delivers the necessary RF power up to 30 W depending on the frequency.
These drivers are designed to have low current consumption and low heat dissipation (CLASS AB or CLASS B).
The RF output power can be externally modulated with a TTL and an analog 0-5V signal.

FEATURES

- Fixed frequency up to 110 MHz
- Compact zize
- RF power up to 30 W
- TTL + Analog controls
- RoHS

SPECIFICATIONS (T=25°C)

	Units	Specifications
Carrier Frequency	MHz	In [24..110] MHz
Frequency Stability	ppm/°C	Nom +/- 1
Frequency Accuracy	ppm	< 50
Max Output RF Power*	W	Up to 30W @40.68MHz Up to 25W @68MHz Up to 20W @80MHz Up to 16W @110MHz
Digital Control (DB9 Pin 3)		TTL / 1 kΩ Pull down (DPC 1 = RF ON)
Full Analog Control (DB9 Pin 8)		Analog 0-5V / 1 kΩ Pull down
Rise Time/Fall time (10-90%)	ns	< 50ns (nom 35ns @40.68MHz, 25ns @80MHz)
Power Supply OEM version	VDC	24VDC Nom 0.5A (OFF)/1.5A @20W, Nom 1A (OFF)/2A @30W
Operating CLASS		AB up to 4W (QMODPA), B up to 30W (QMODPAA)
Output Impedance	Ω	50
VSWR		< 1.2/1
Extinction Ratio	dB	nom 60
Input Connector		DB9
Output Connector		SMAf
Size / Weight		80 x 60 x 23 mm3 / 170 g
Heat Exchange		Conduction through baseplate for OEM versions
Operating Temperature	°C	10 to 40 (max Tcase 55°C)
Storage Temperature	°C	-40 to +85

*Different versions available with max RF power between 1Watt and 30Watts, depending on frequency.
* Options available with Low electrical consumption, Power supply 9VDC, 12VDC or 15VDC

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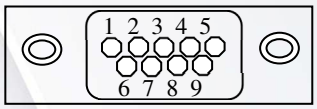
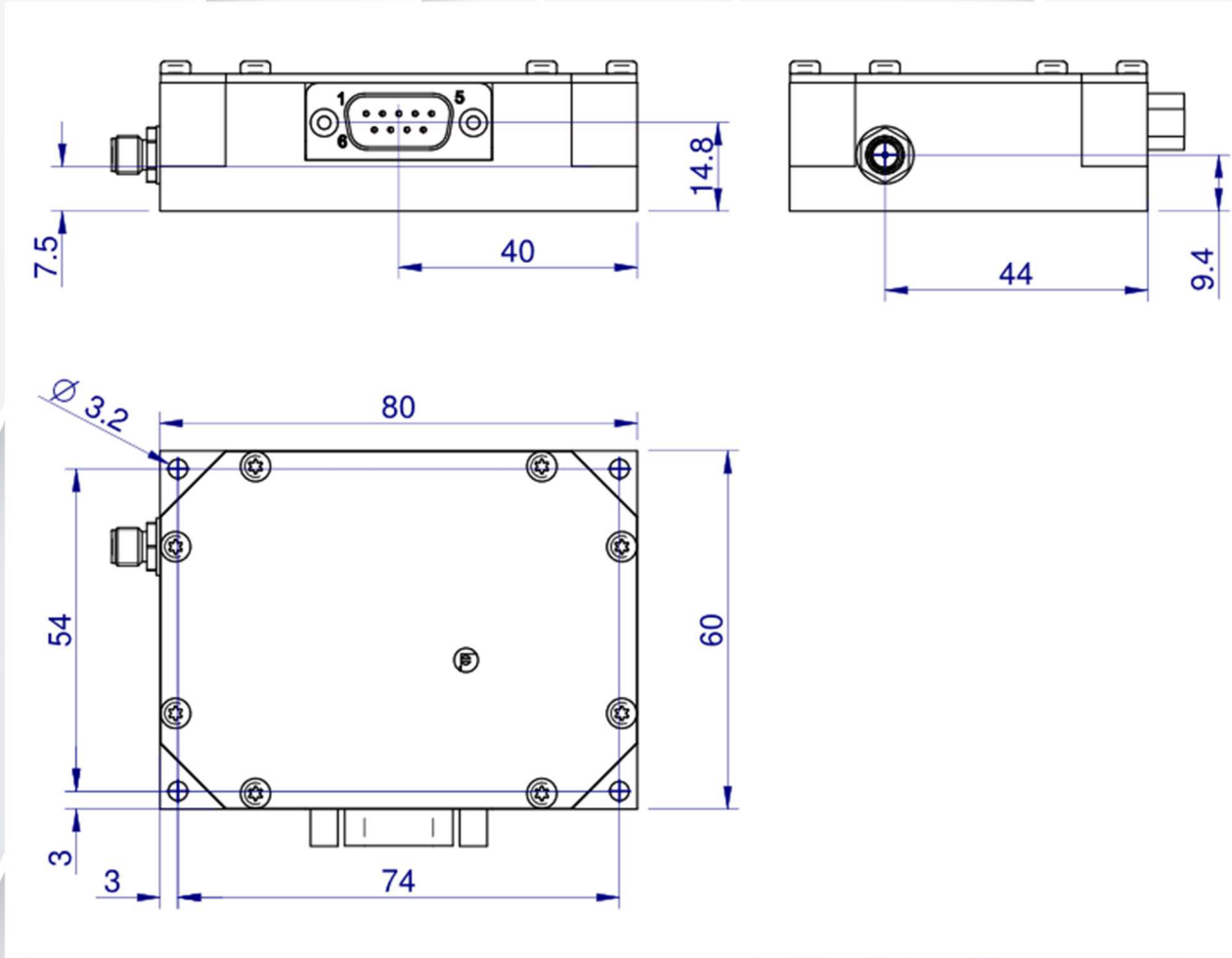
PIN Connections

Pin 1,2,6 : GND
Pin 4,5,9 : +VDC
Pin 3 : Digital Input (TTL)
Pin 7 : --
Pin 8 : Analog Input FAC



MECHANICAL DRAWINGS (mm)



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