

MODAxx-A2-31-x MODAxx-A25-31-x

LOW CONSUMPTION FIXED FREQUENCY DRIVERS

Product Overview

These drivers are based on quartz oscillators and provide standard fixed frequencies such as 40 MHz, 80 MHz, 110 MHz. They are designed so as to minimize the electrical power consumption in order to lower significantly the heat dissipation. They will be ideal for portable applications or designs for which compact size is the key parameter. The typical electrical consumption is 6 watts, for a nominal RF output power of 1.4W.

Features

- **MODAxx:** Fixed frequency: 80, 110, 180, 200 MHz
- RF power: typ 1.4 Watts
- Analog or TTL Modulation input controls
- Dual AM controls available Analog + TTL
- ROHS

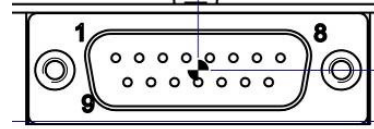


Technical Specifications

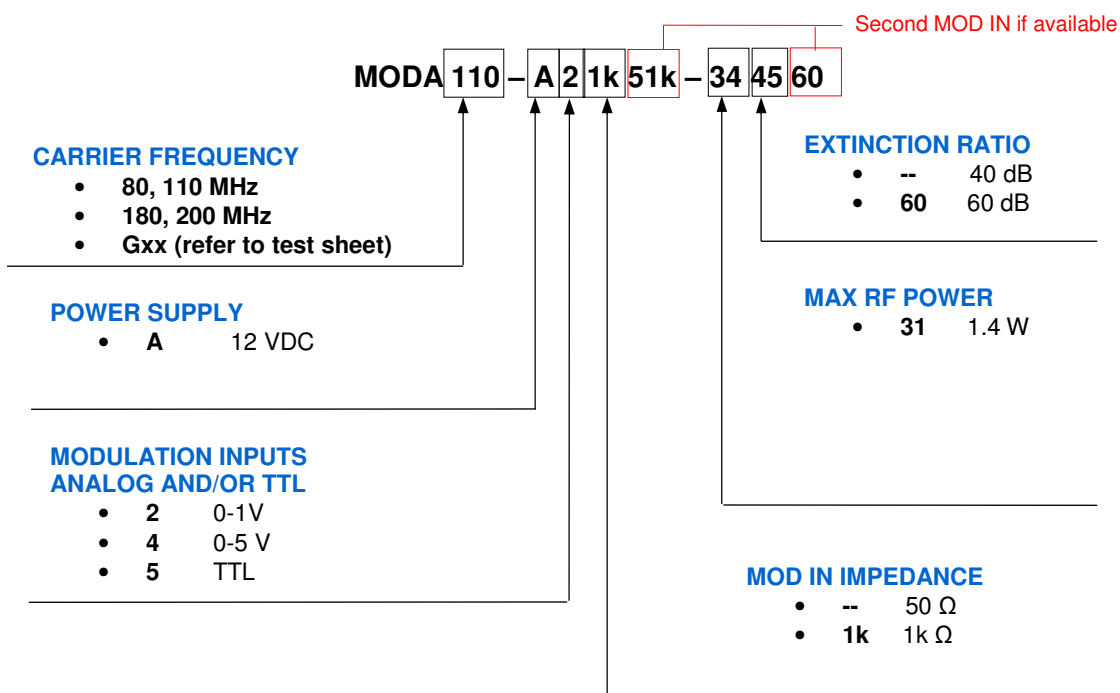
Parameter	MODAxx – LOW CONSUMPTION (6W)
Carrier Frequency	80 / 110 / 180 / 200 MHz (Other on request)
Frequency Stability	Nom +/- 1 ppm/°C
Frequency Accuracy	< 50 ppm
Output RF Power (@1dB compression)	>1.2W, max 1.4 Watts @80MHz >1.4W, max 1.6 watts @110MHz >1.2W, max 1.4 watts @180-200MHz
Power Supply OEM version	12 VDC, nom 450 mA @80MHz 12 VDC, nom 550 mA @110MHz 12 VDC, nom 510 mA @180-200MHz
Power Supply Laboratory version	110 – 230 VAC
Modulation Input Control	Analog, TTL, or Analog+TTL (Impedance 50 Ohms or 1 Koms)
Rise Time/Fall time (10-90%) < 4 watts	< 10 ns @80 MHz, < 8 ns @110 MHz, < 5 ns @180 MHz, < 3 ns @F>200MHz
Input / Output Impedance	50 Ω
VSWR	< 1.5/1
Extinction Ratio	Nom 45 dB (>40 dB)
Input / Output Connector	SMA - DB15 / SMA
Size / Weight	129 X 61 X 30.1 mm3 / 500 g (OEM) 340 x235X90 mm / 3.6-3.8 Kg (Lab)
Heat Exchange	Conduction through baseplate for OEM versions AA adds a supplementary heatsink + fan on top of 4-20 Watts version Stand alone (fan integrated) for laboratory versions
Operating Temperature	10 to 40 °C (max Tcase 55°C)
Storage Temperature	-40 to +60 C° Non condensing

PIN connections

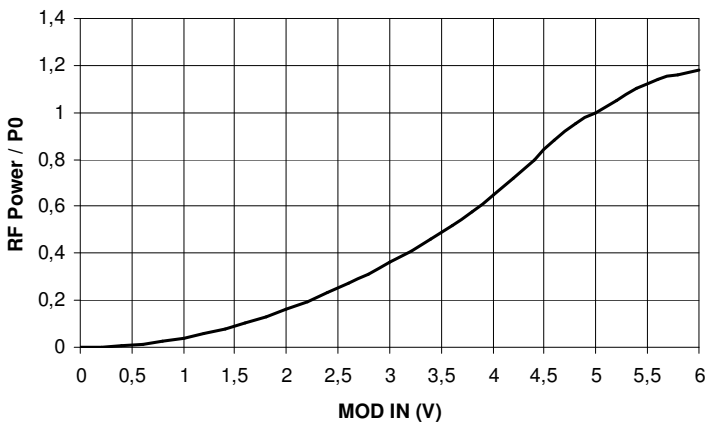
Pin 1	: ANALOG INPUT
Pin 3	: TTL INPUT
Pin 5	: NC
Pin 6	: NC
Pin 8	: NC
Pin 9, 11, 13, 15	: POWER SUPPLY (+24VDC standard)
Pin 2, 4, 7, 10, 12, 14	: GND



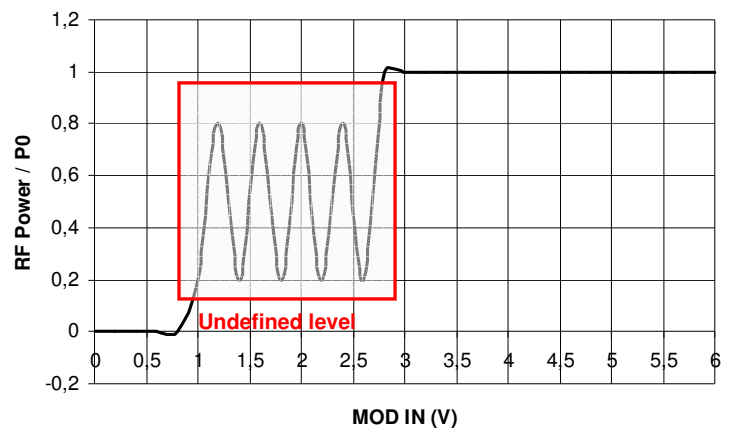
How to determine your model



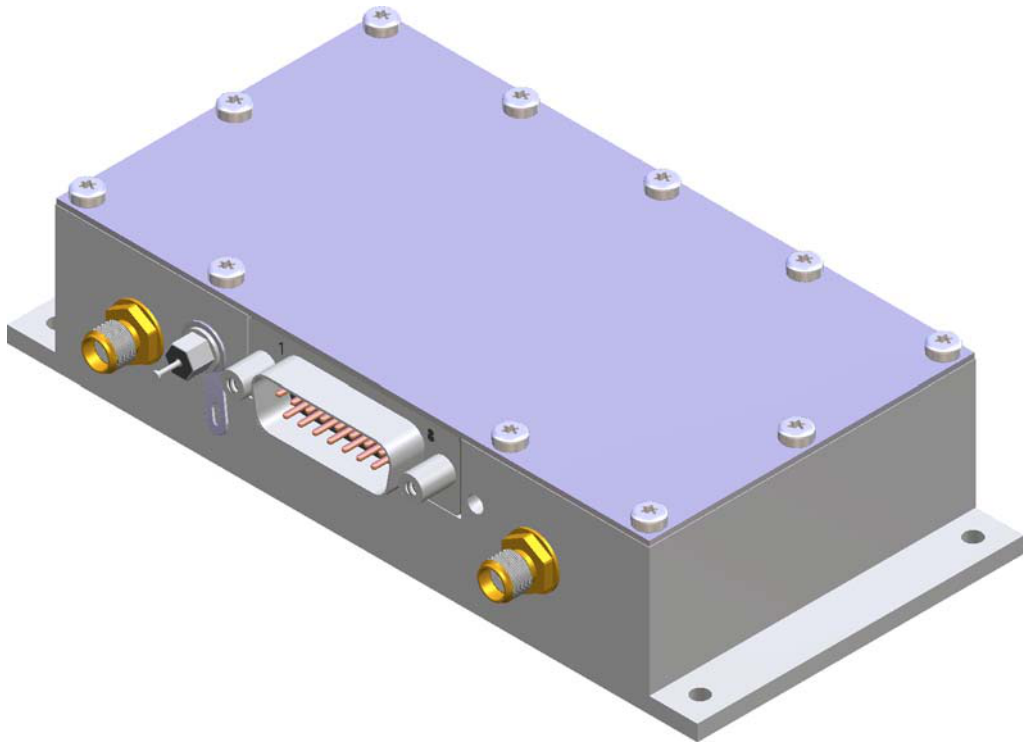
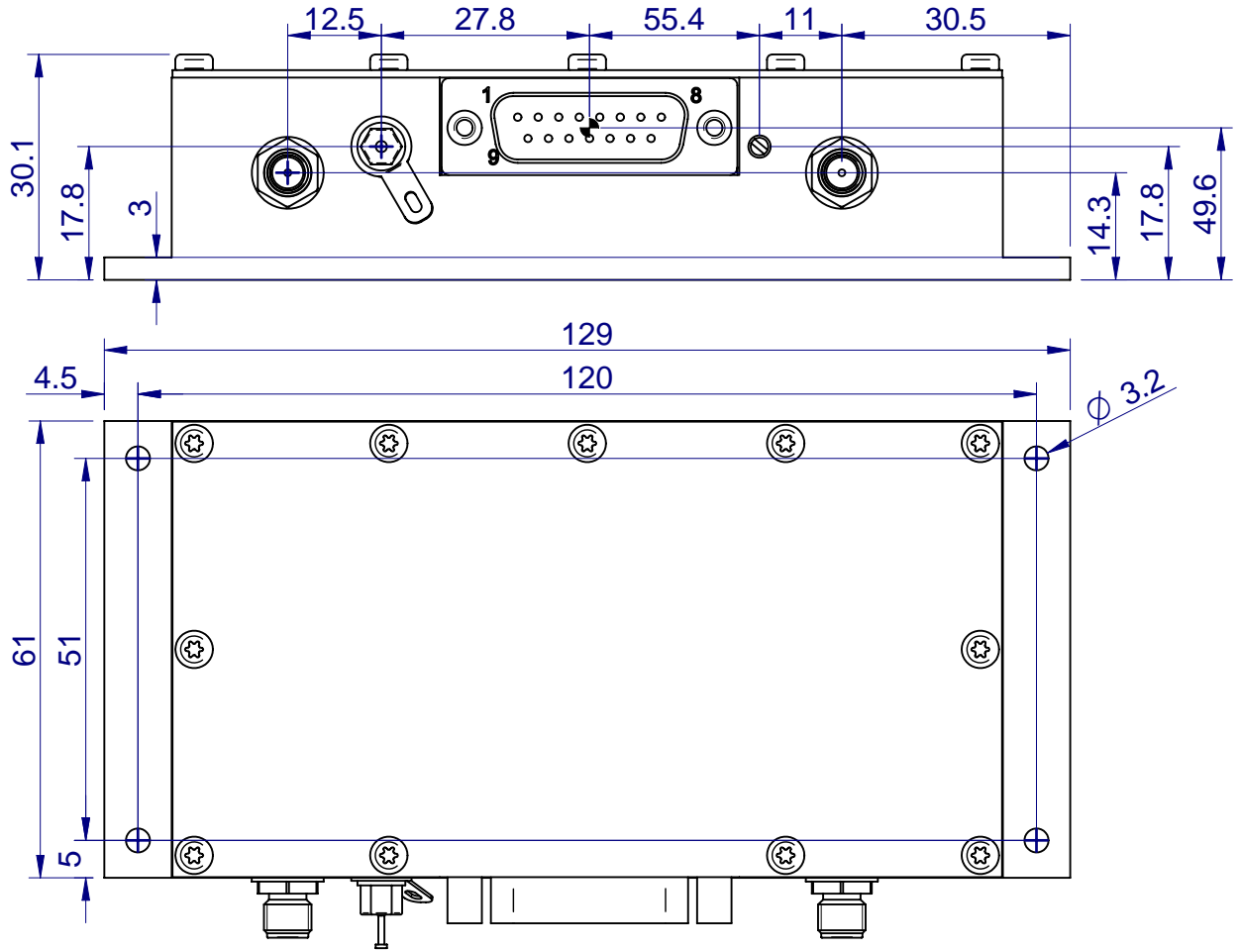
Typ Relative Output RF power vs ANALOG MOD IN (0-5V)



Relative Output RF power vs DIGITAL MOD IN (TTL)



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				Nom: _____		Cotes après traitement sauf contre indications	Tolérances: $\pm 0.1\text{mm}$
				Date: _____			
				Nom: Saint-Jean T.		$\leq \pm 1^\circ$	$\sqrt{3.2\mu\text{m}}$
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				Matière: _____			
				Traitement /Finition: _____			
				Titre: MODA XX assemblage et vue d'ensemble			
0		Création		24/05/06		T.S	
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				N° Plan		Ech: _____	
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				Plan d'ensemble		