

DESCRIPTION

These drivers based on quartz oscillators, produce a fixed stable and accurate RF frequency signal. The built in amplifier delivers the necessary RF power to drive an air cooled Q-switch up to 20 W.

The RF output power can be externally modulated with a TTL and analog 0-5 V signal. Standard power supply is 24 VDC, but versions are available with 15 VDC.

FEATURES

- Fixed frequency 27.12, 40.68, 68 and 110 MHz
- RF power up to 20 Watts
- TTL + Analog controls
- RoHS



APPLICATIONS

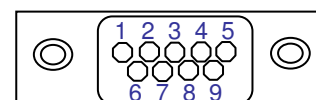
- ACOUSTO-OPTIC DRIVER

Parameter	Unit	QMODP0xx	
Carrier frequency	MHz	27.12 / 40.68 / 68 / 80 MHz	
Frequency Stability	ppm/°C	+/- 1	
Output RF Power (@1dB compression)	W	≥ 20	
Digital Control	DPC	TTL / 1 kΩ Pull down	Pulse control
Analog Control	FAC	0-5 V / 10 kΩ = RF HIGH LEVEL Control	Power adjust
Fall time	ns	Nom 25 < 50	
Input / Output impedance	Ω	50	
Power supply	VDC	24 +/- 0.5, nom 2.7A (<2.9A)	15 VDC, < 3.3 A
Class		AB	
VSWR		< 1.2/1	
Extinction Ratio	dB	Nom 45	
Input / Output Connector		SMA female / DB 9	
Size / Weight	mm ³ / g	129 x 61 x 53.8 / 520	
Heat Exchange		Heatsink + Fan / Conduction through baseplate	
Operating Temperature (Non condensing)	°C	-10 ~ +55	

Options / On request	
POWER SUPPLY	<input checked="" type="checkbox"/> 110-230 VAC
DPC	<input checked="" type="checkbox"/> TTL Reversed
RF POWER	<input checked="" type="checkbox"/> 10, 15 watts
HOUSING	<input checked="" type="checkbox"/> Without heatsink
SLOW START	<input checked="" type="checkbox"/> QMODP0S (FPS)

PIN connections

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



HOW TO DETERMINE THE REFERENCE OF YOUR MODEL:

QMODP040.68-B5R-43-WHK

CARRIER FREQUENCY

- **27.12** 27.12 MHz
- **40.68** 40.68 MHz
- **68** 68 MHz
- **80** 80 MHz

POWER SUPPLY

- **B** 24 VDC
- **A** 15 VDC

DPC CONTROL

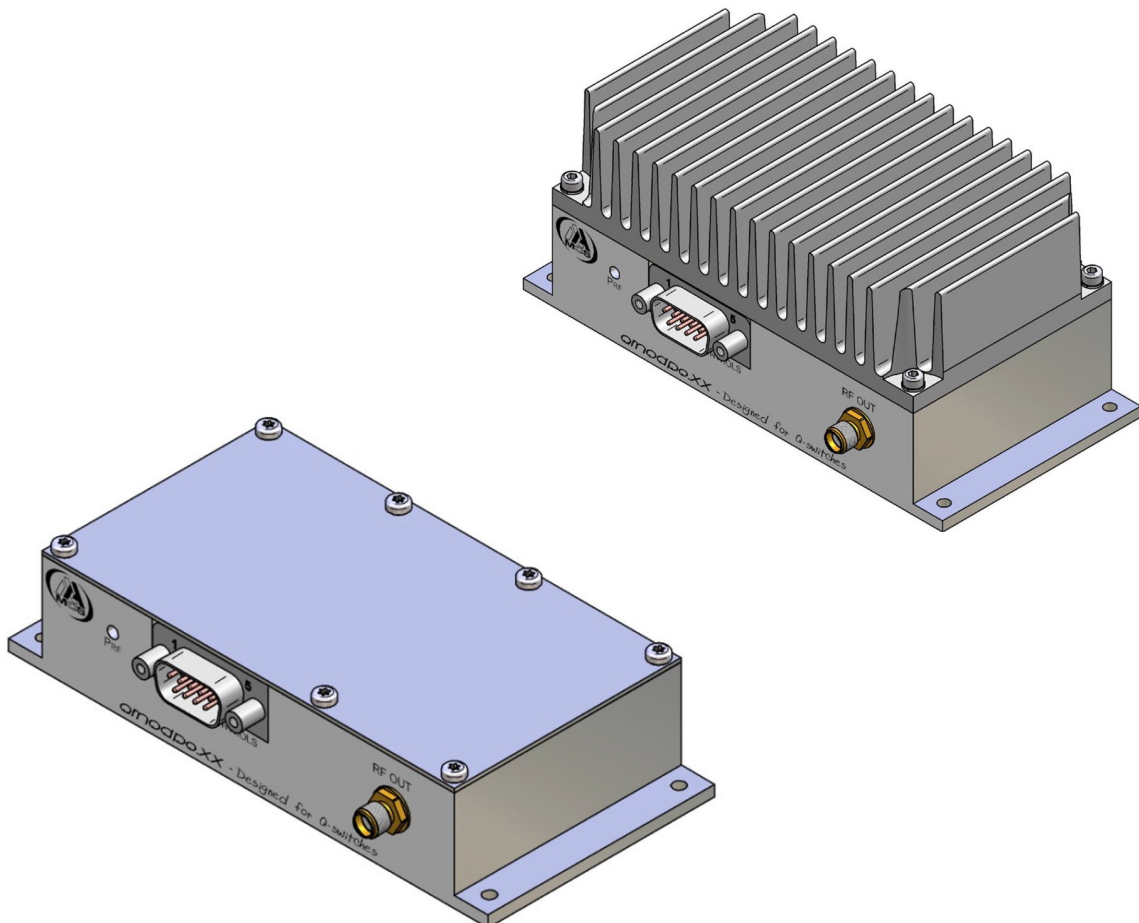
- **(-)** TTL/ 1 Kohms
- **5R** TTL Reversed/1 Kohms

HEATSINK

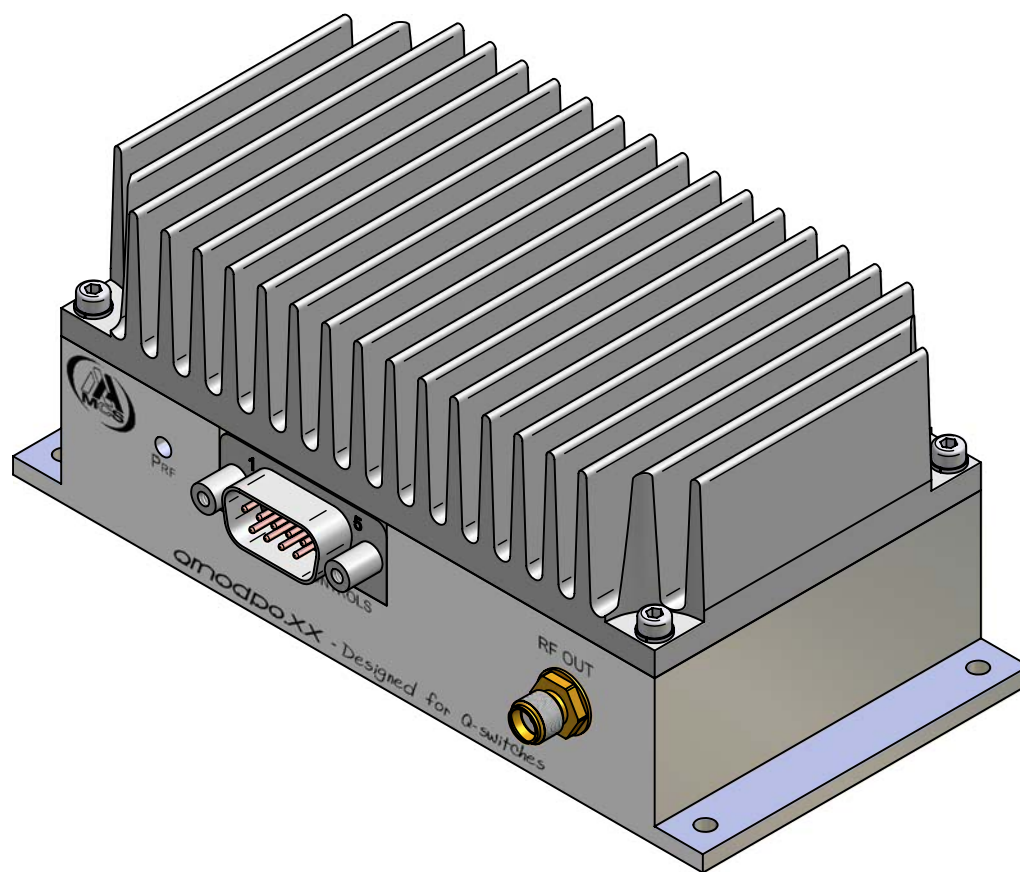
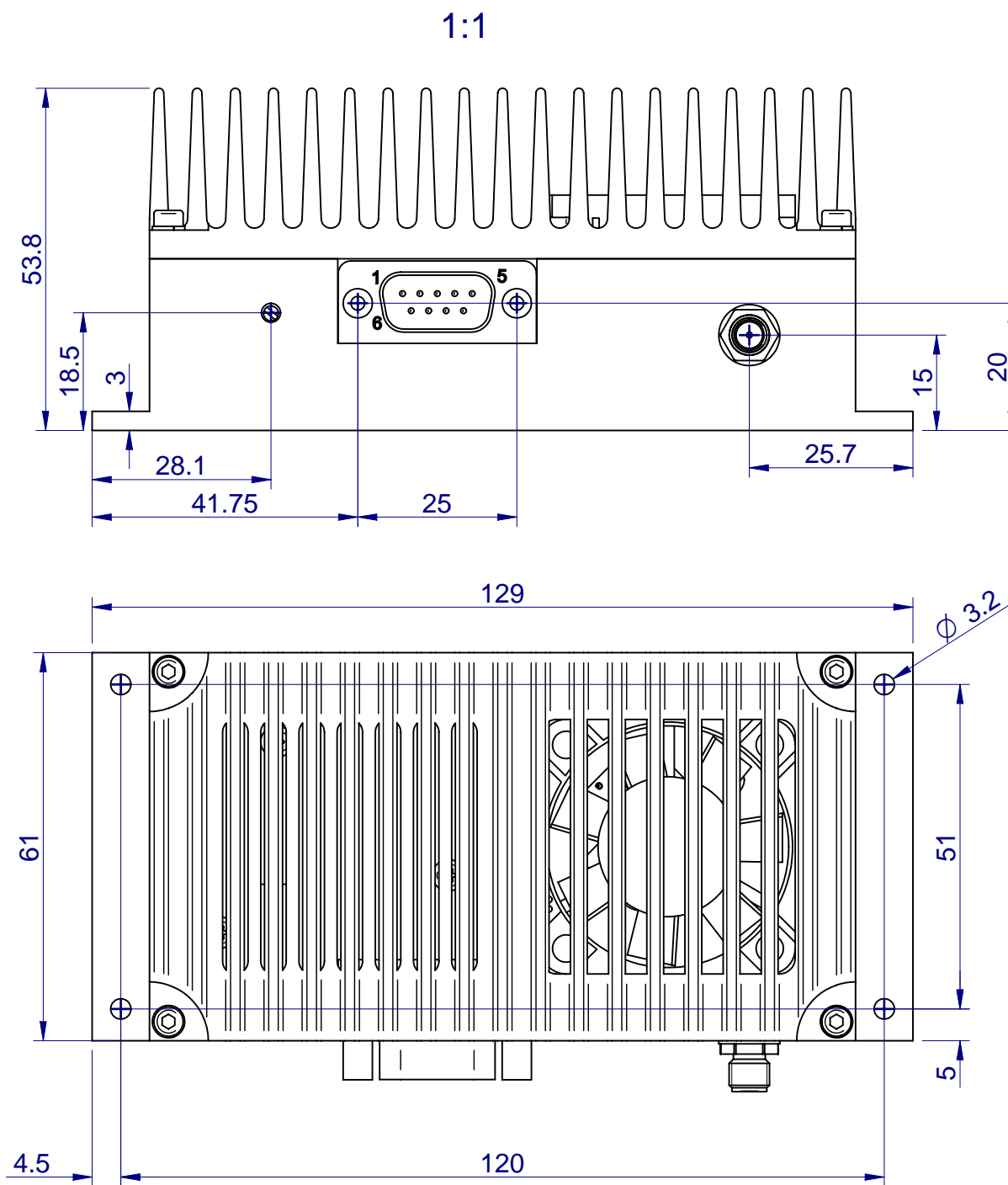
- **(-)** Including Heatsink
- **WHK** Without Heatsink

MAX RF POWER

- **40** 10 Watts
- **42** 15 Watts
- **43** 20 Watts



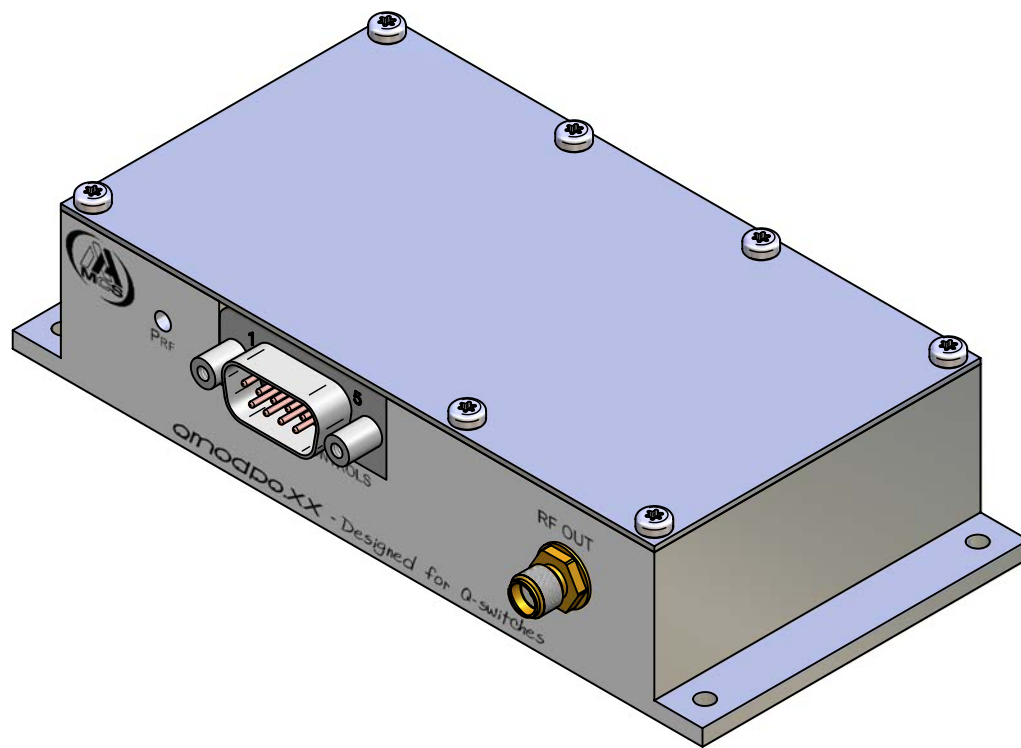
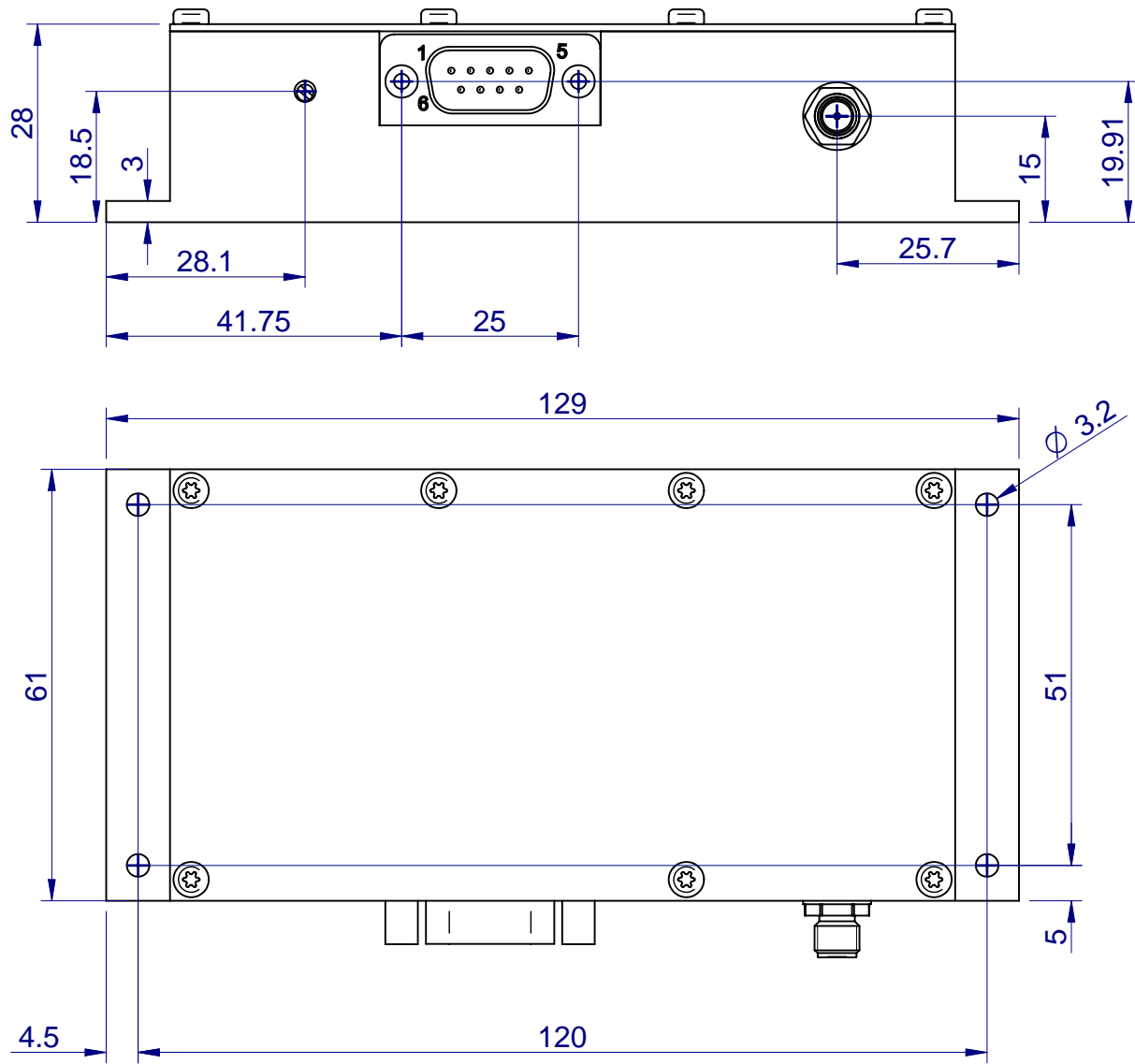
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				<u>Dessiné par</u>		<u>Vérifié par</u>		Cotes après traitement sauf contre indications		Tolérances: ±0.1mm ∠ ±1° √ 3.2μm	
				Nom: THEVOT N.							
				Date: 01/08/2007							
				Matière:							
				Titre: QMODP0							
				0		Création		01/08/07		T.N	
				Ind.		Description		Date		Visa	
										Ech: 1/1	

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				Nom:	<u>Dessiné par</u>	<u>Vérifié par</u>	Cotes après traitement sauf contre indications	Tolérances:
				Date:	THEVOT N.			$\pm 0.1\text{mm}$
				Matière:	01/08/2007			$< \pm 1^\circ$
				Traitement /Finition:				$\sqrt{3.2\mu\text{m}}$
				Titre:				
					QMODPO WHK			
0	Création	01/08/07	T.N	N°			Ech:	
Ind.	Description	Date	Visa	Plan			Page 1/1	