Elektromechanik
Entwicklungs- und Produktions GmbH

Acoustic Optic RF Driver - Maxi

Features:

- ✓ **200 Watts Output**
- ✓ Dual output option with 0° phase
- ✓ 24 V Industrial supply
- ✓ Power adj. 20W…200W
- ✓ Dual output Power adj. 10W…80W
- ✓ 24 MHz- 46MHz
- ✓ Analogue modulation
- ✓ Digital pulse control
- ✓ Serial bus interface RS-232 / RS485 / CAN
- ✓ Configuration software

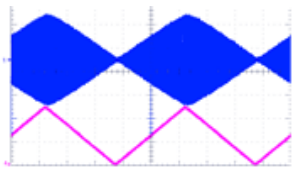
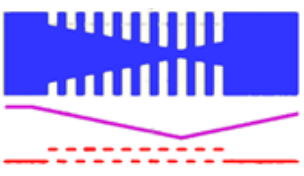
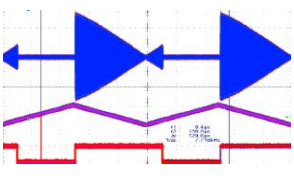
Application:

This RF power driver is primarily designed for the control of **Acoustic-Optical Modulator** and deflectors in high-power LASER machines. The sophisticated robust design guarantees long-term use in harsh environments such as industrial and scientific applications.

General:

The **Maxi** module is designed for acoustics-optic-modulator excitation in high power LASER. It is equipped with **pulse** and **analogue modulation** inputs and can supply up to 200 watts into a 50 Ω load. This device is also available with a **double power output**, which can be used to **excite** two independent **loads** with 0 ° phase angle with **80 watts each**. Both outputs have **independent** and user **accessible power adjustment**. Also, a combined power setting can be selected. The most popular usage is the mixed **analogue/digital** mode. In that case, the **analogue** signal controls the **output power** and on the other hand, a **synchronized gate signal** controls a **blanking** or **full power** on command. Due those opportunities, many various **complex shapes** and pulse operations are possible. A simple single analogue modulation is also applicable. A **serial interface** enables **access** to all device functions with complete **configuration by remote control**.

Properties:

Amplitude Modulation	Pulse-Analogue Mode	Pulse-Analogue Mode	Serial Interface
			
External Analogue 0% to 100%	External Gated Analogue 100% to SET	External Gated Analogue 0% to SET	Programming and Remote

Controls: Analogues Modulation, Digital Pulse input, Power and Video gain.
Options: Remote control, optional heat sink and fan are available on request.
Accessories: RF-Cable and adaptors, Power supply, Power splitter-Combiner

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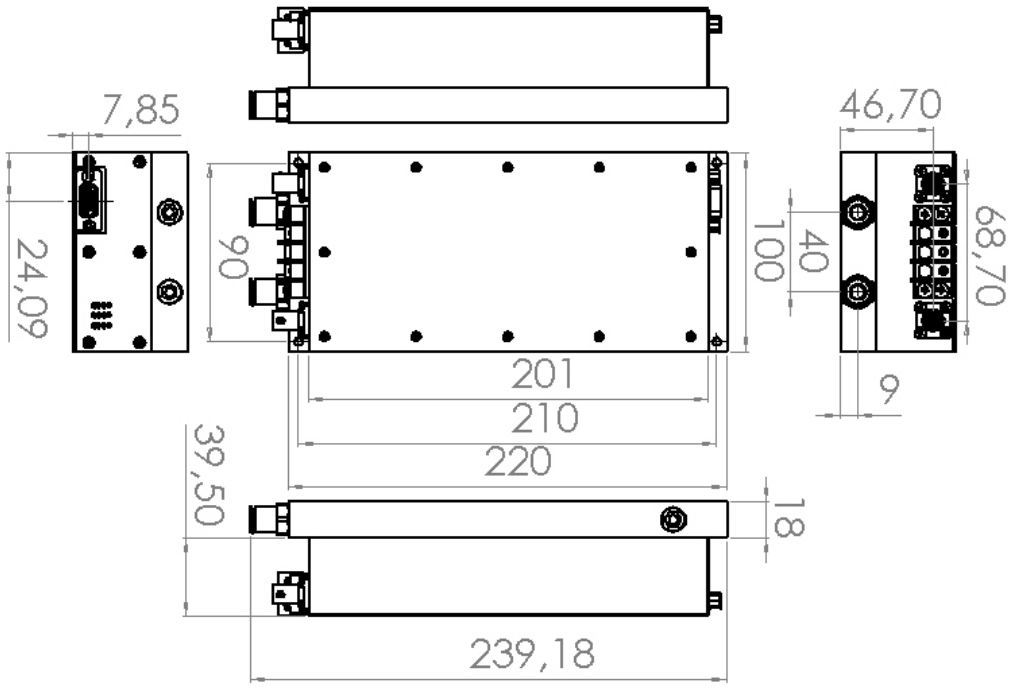
Specification:

Electrical	Min	Max	Unit
Output power (into 50Ω)	40(2x18)@50Ω	200 (2x80)@50Ω	W
Power supply	23.5	24.5	V
Input current	8	16 @200W	A
Power loss	80	200	W
Harmonics suppression	40		dBc
Maximum permissible VSWR for rated		1.25	
Modulation, analogues	DC	2@50Ω	MHz
Linearity - deviation	-	7	%
Operating frequency * factory setting	24	46	MHz
Dynamic response			
Fall time 90-10	80 @40.68 MHz	120 @27MHz	ns
Rise time 10-90		100	ns
Dynamic response	40		dB
Thermal			
Temperature drift	-	0,2	$^{W}/_{K}$
Time to reach thermal stability		240	s
Ambiance /Installation/Transport			
Water flow rate @ 22°C	60	na	l/h
Storage temperature	-5	+80	°C
Transport (temporary)	-20	+100	°C
Relative humidity in storage		90	%
Ambient temperature during operation	+5	+45	°C
Relative humidity during operation		75	%
Ambient conditions, room air	Atmospheric max. 3000m above sea level		
Body Dimensions L x W x H	-	201 x 100 x 40	mm
Weight * heat sink dependent	1100	2400	g

Specification ratings are based on measurements in a 50 Ω system.

Dimension: (mm)

Example: liquid cooling



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