

Acoustic Optic RF Driver – Micro

Features:

- ✓ **60 Watts Output**
- ✓ 24 MHz -46 MHz
- ✓ 24 V Industrial supply
- ✓ Analogue modulation
- ✓ Power adj. 6-60W
- ✓ Digital pulse control
- ✓ Temperature compensation
- ✓ Thermal overload protection
- ✓ Operation monitoring
- ✓ Space saving case Style



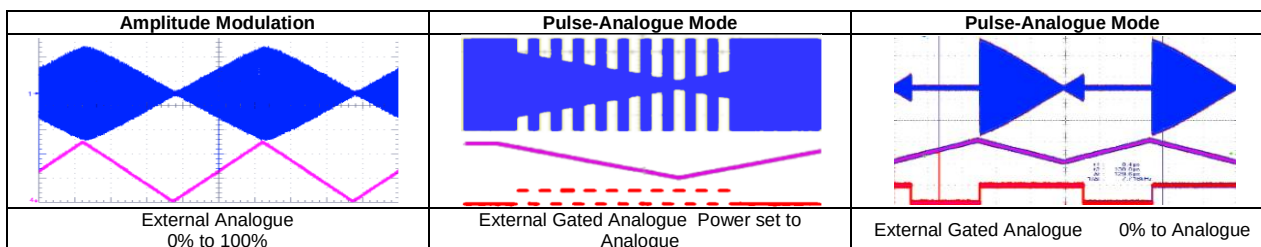
Application:

The RF driver module Micro is a specific development for **Acoustic Optical Modulator** (Bragg Cell) applications. The robust design is intended for compact lasers in the upper performance class in machine tools.

General:

The RF Driver **Micro** is a mid-range power RF module with **60 watts output power** for the **Acoustic Optic Modulator** control. This module is equipped with **pulse and analogue** function for modulation. Its unique **compact** design with enormous **power density** makes it to a versatile and flexible device in the AO field. The defined **test bench settings** provide constant unit-to-unit performance with excellent **signal stability** over **long operating** times. The main application is the **analogue signal** modulation in combination with a synchronized gate signal, which can perform a blanking or full RF-output. **Settings** for power and modulation are possible with a small screwdriver due its **user-accessible potentiometers**. Both input signals, analogue and gating signal, can be combined to a very complex RF modulation like the following examples.

Properties:



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

Subject change without notice V10_R14

Specification:

Electrical	Min	Max	Unit
Output power (into 50Ω)	6	60	W
Power supply	23.5	24.5	V
Input current	4	6,8 @60W	A
Power loss	-	104	W
Harmonic suppression	40	-	dBc
Recommended permissible VSWR for continues Operation	-	1.35	1
Modulation, analogue	DC	5 @50Ωinput	MHz
Modulation input	3,3	10	V
Operating frequency	24	46	MHz
Dynamic			
Fall time 90-10	60 @80 MHz	120 @27MHz	ns
Rise time 10-90		100 @27MHz	ns
Dynamic -Extinction Ratio	40	-	dB
Thermal			
Temperature drift	-	0,1	W/K
Time to reach stability		300	s
Ambiance /Installation/Transport			
Airflow rate @ 40°C standard heat sink 100x100x25	2	-	l/s
Storage temperature	-20	+100	°C
Relative humidity in storage		90	%
Ambient temperature during operation heat sink Body temperatures flanged	+5	+45	°C
Relative humidity during operation	+5	+60	°C
Ambient conditions, room air	Atmospheric max. 3000m above sea level		
Body Dimensions L x W x H	-	100 x 100 x 39,5	mm
Weight * heat sink	680	700	g

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

Dimension: (mm)

