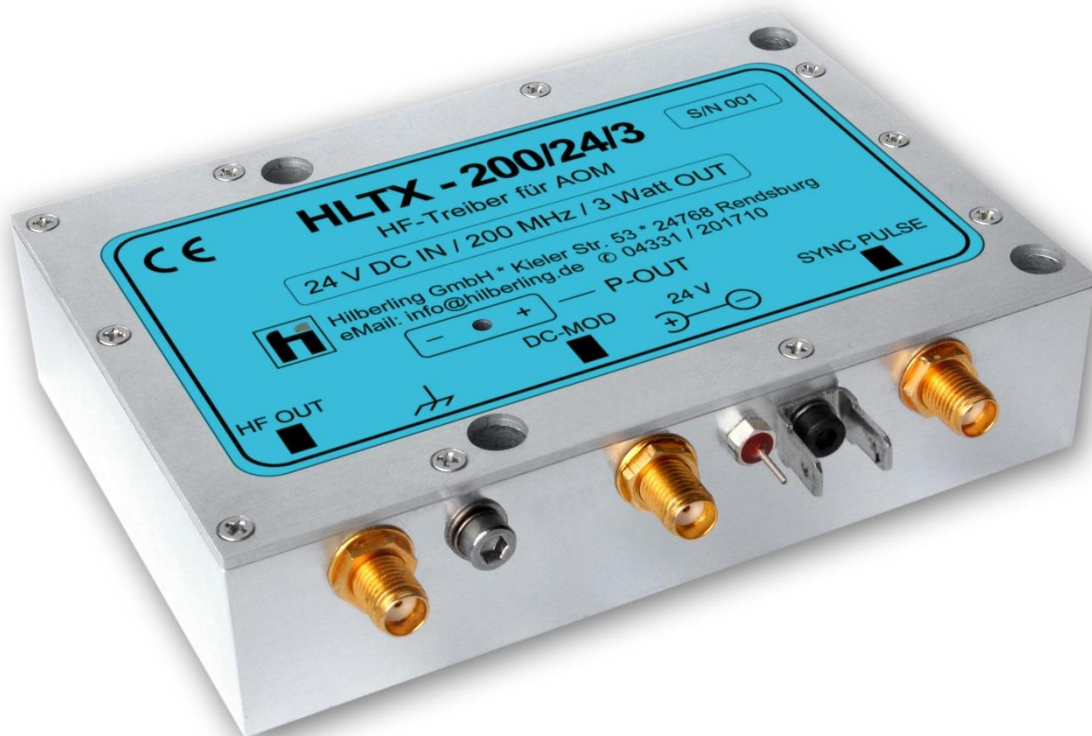




Hilberling GmbH    Entwicklungslabor    Hochfrequenztechnik  
Heinrich-Hertz-Strasse 2    24790 Schacht-Audorf / Germany  
eMail: info@hilberling.de

# HLTX - 200/24/3

RF Driver for acusto-optic  
Modulators ( AOM / LASER )



200 MHz / 3 Watt RF-Power / DC 24 Volt



Project: HF Driver for AOM

Technical Data

#### Performance Data

- Output Frequency VHF 200 MHz Digital Pulse Mode
- Output Power min. 2.5 W @ 50  $\Omega$
- Output Power max. 3.5 W @ 50  $\Omega$
- Overload Protection Circuit VSWR > 3 : 1
- Overload Protection Open- /Short- Circuit Proof @ Output
- RF ON / OFF Ratio > 60 dB

#### Power Supply

- Supply Voltage DC +24 V / 0.3 A  
Internal Polarity Protection

#### Slew Rate

- LVCMOS 3.0 V
- Sync Pulse Input 50  $\Omega$
- HF Switch-on Time ~166 ps
- HF Switch-off Time ~166 ps
- Minimum HF Pulse Width 5 ns
- Maximum HF Pulse Width  $\infty$

#### DC Modulator 0 ... 3 V

- DC adjustable 0 ... 100 % RF Out / 0 ... 3 V
- Mod.-Linearity 0.2 ... 2.8 V 1 % typ.
- Modulation DC ... 100 ns



Project: HF Driver for AOM

Technical Data

#### Connections

- HF OUT	SMA-f
- DC MOD	SMA-f ( SMB / SMC ) <sup>1</sup>
- SYNC PULSE	SMA-f ( SMB / SMC ) <sup>1</sup>
- DC Connector 24 V	+ Soldering Pin / GND/COM Flat Pin
- GND	Grounding Screw / M3
- Cooling	Conductive Cooling through Housing Bottom
- Thermal Performance external	5 ... 8 W

#### Ambient Temperature

- Operating	0 ... +50°C
- Storage	-20 ... +80°C

#### Housing

- Material	Al Alloy / Transparent Chromate Base: Solid Material, milled Cover: 1.5 mm Plate
- Dimensions	107.5 x 73.0 x 25.0 mm (W x D x H)
- Weight	0.3 kg
- Mounting Holes	4 x Ø3.4 mm / 70.0 x 60.0 mm

#### Quality Standards / EMC

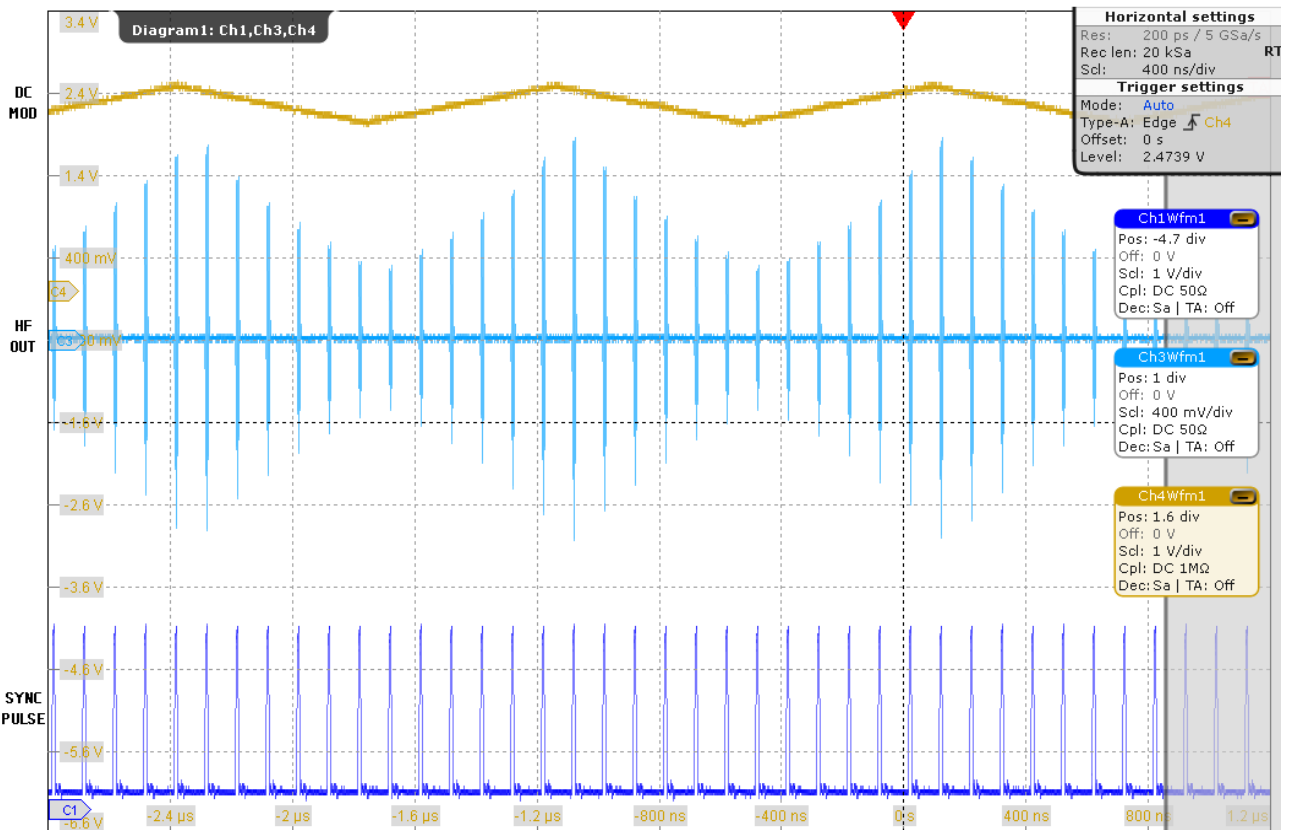
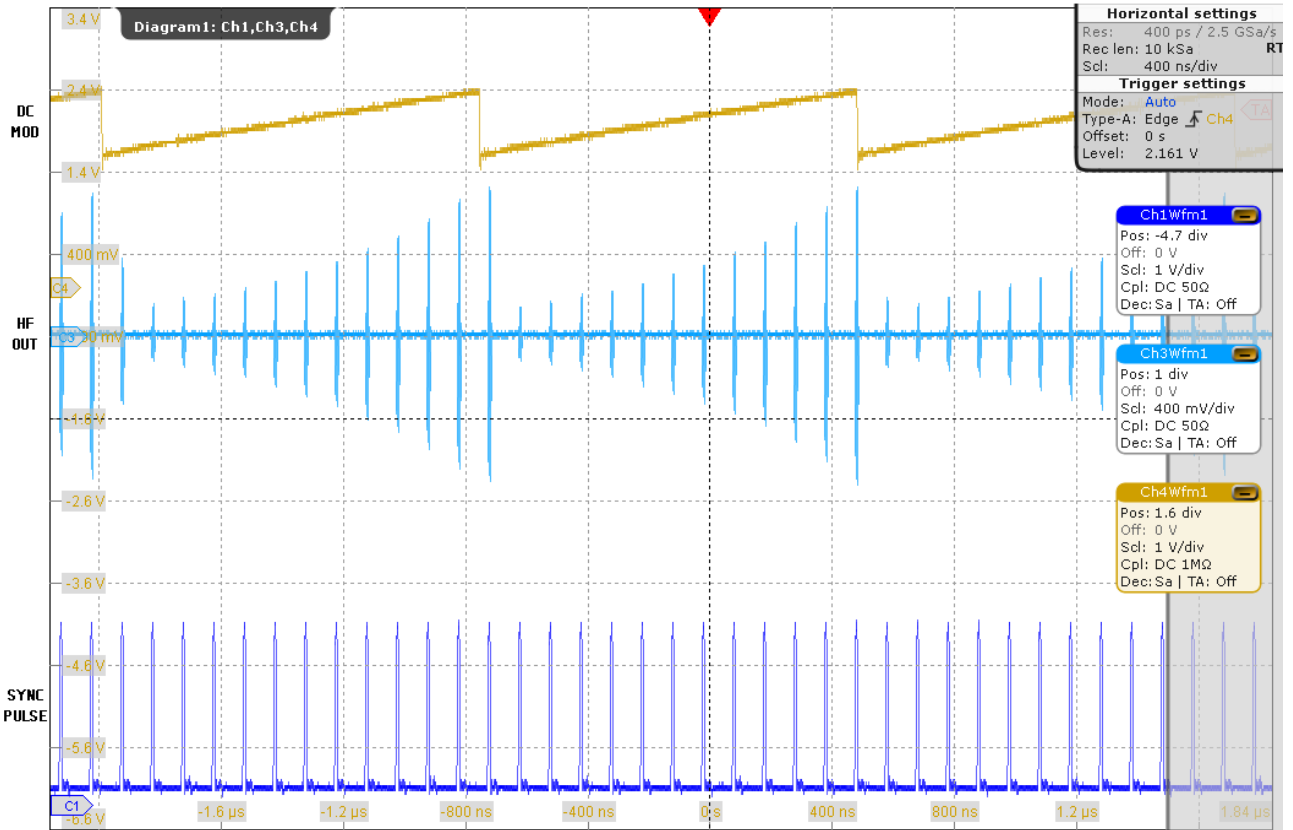
- Testing Standards	CE / EN 50178 / EN 50081-1 / EN 50082-1 EN 55011
---------------------	---

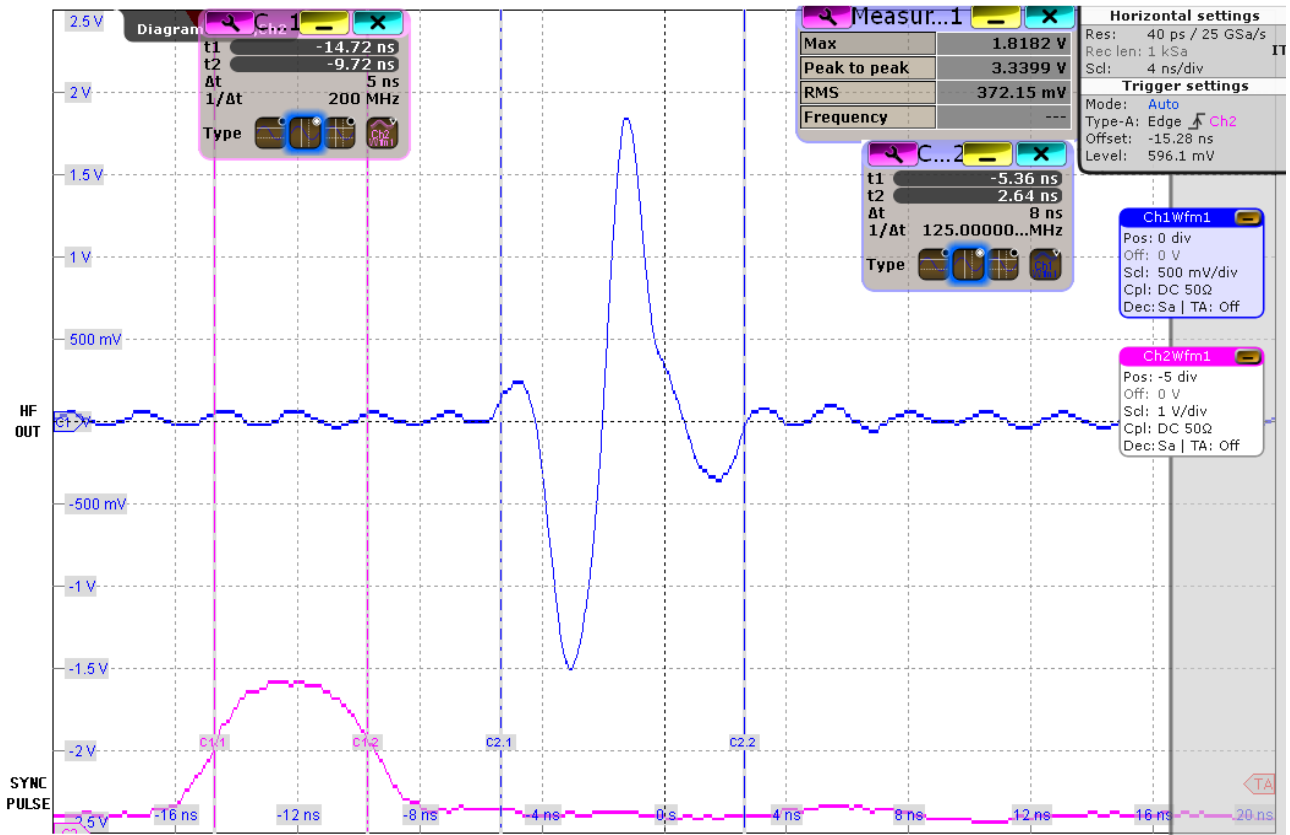
1 Option Connectors



#### Project: HF Driver for AOM

#### Diagrams







# Hilberling

HF-Entwicklungslabor eMail: info@hilberling.de  
Heinrich-Hertz-Strasse 2  
24790 Schacht-Audorf / Germany

Data Sheet / Specifications

## HLTX - 200/24/3

Project: HF Driver for AOM

### Outline Drawings

