

## AOM Driver

## A 025

With the A 025 Landwehr offers a quartz stabilized oscillator driver for acousto-optic modulator (AOM) applications. The A 025 is a new type of power driver which is designed for analogue modulation. High technical performance guarantees wide modulation bandwidth, excellent transfer characteristic and unique on/off ratio.

This AOM driver is designed for industrial applications as well as for university research.



## Technical Data

Oscillator frequency	40 MHz $\pm$ 0.1 %, quartz stabilized
Frequency drift	$\Delta f / ^\circ\text{C} < \pm 30$ ppm
Output frequency of driver	$f_0 = 40$ MHz
Spectral purity	$< -60$ dBc @ $f_0 \pm 35$ MHz
Harmonics	$< -18$ dBc @ $2f_0, 3f_0, \dots$
Analogue video input voltage	0 ... +1 volt into 50 $\Omega$ <ul style="list-style-type: none"> <li>• logic <math>\downarrow 0 \downarrow = 0</math> V      rf power off</li> <li>• logic <math>\uparrow 1 \uparrow = 1</math> V      rf power on</li> </ul>
RF on-/off-ratio analogue	$> 40$ dB at any output level
RF switch-on/switch-off time	$< 20$ nsec @ $P_{\text{RF}}$ : 10...90 %
RF output power level	+22 ... +32 dBm @ 50 $\Omega$ , amplifier is protected against load mismatch

RF output stability	warm-up time (10 min)	<± 5 %
	after warm-up time	<± 1 %
Supply voltage	$U_S = 24 \text{ V} \pm 0.5 \text{ V}$	
Supply current	$I_S = 460 \text{ mA} \pm 50 \text{ mA}$	

## Absolute Maximum Ratings

Supply voltage output stage	+27.0 V
Power output	no DC-feedback allowed
Case temperature	+55 °C • the driver must be mounted on an adequate heatsink

## Quality Standards

EMC-standards	VDE 0871 - B FCC Rules Part 15 - B
Burn-in test	passive 2 h active ½ h

## Connectors and Mechanics

RF-Connector BNC female

Analogue input BNC female

Dimensions:  
80 mm x 60 mm x 32 mm

Mounting plate:  
100 mm x 32 mm

