10100386

VFM 1,5-06
Fast Diode Current Modulator

Features
Drives arbitrary current waveforms into high voltage, high power laser diodes
CW, pulsed, modulated or mixed
Short rise and fall time
Bandwidth up to 15 MHz
Enhanced performance
Two analog inputs
Trigger input

Specification

Diode current	0 ... 1,5 A
Diode voltage	0 ... 4 V
Power dissipation	30 W max allowed
Supply voltage	3 V ... 6 V
Supply current	1.5 A max
Rise time	27 ns
Fall time	27 ns
Bandwidth	15 MHz
Inputs	
Diode current set point 1	0 ... 1 V (50 Ohm input)
Diode current set point 2	0 ... 5 V (high impedance)
Trigger	TTL
Enable	TTL
Reset	TTL
Outputs	
Diode current monitor	0 ... 82.5 mV (into 50 Ohm)
Temperature	0 ... 4 V for 0 ... 80°C
Ready	TTL

General specifications

Ambient temperature	0 ... +45 °C
Cooling	Required
Dimensions	95 x 61 x 20 mm
Weight	250 g
Ordering Code	10100386

Description
The fast diode current modulator VFM 1,5-06 is a linear modulator with improved properties for driving arbitrary current waveforms or fast pulses into laser diodes
Current waveforms can be CW, pulsed, modulated or mixed with frequencies up to 15 MHz and currents up to 1.5 A.
The VFM 1,5-06 is small and compact and it is designed for mounting it with low inductance directly at laser diodes.
The VFM 1,5-06 has two analogue inputs for the current setpoint, a high frequency input (50 Ohm input impedance) with a bandwidth of 15 MHz and a low frequency input with a bandwidth of 100 KHz. Both inputs cover the full current range.
Additionally there is a TTL-Trigger input which acts at the high frequency input for generating fast and clean pulses.

For detailed information see operating manual or visit our website.