MESSTEC Power Converter GmbH

Data Sheet Fast Modulator MSM 100-25

0 ... 100 A 0 ... 200 A 0 ... 23 V 2300 W max 150 W max allowed

1 V ... 24 V 100 A max 3 V ... 6 V 5 μs 7 μs

100 kHz max 100 kHz max

TTL TTL



Features

Drives arbitrary current waveforms into laser diodes CW, pulsed, modulated or mixed curves Short rise and fall time Two analog inputs plus BIAS current Small dimensions, low weight

Specification

Inputs

Diode current set point 1 Diode current set point 2 Enable Reset

Outputs

Diode current monitor Temperature Ready Excess temperature 0 ... 50 mV (into 50 Ohm) 0 ... 4 V for 0 ... 80°C TTL TTL

0 ... 500 mV (50 Ohm input) 0 ... 5 V (high impedance)

General specifications

Ambient temperature0 ... +45 °CCoolingRequiredDimensions95 x 61 x 20 mmWeight240 gOrdering Code10100458* for internal electronics

Description

The fast diode current modulator MSM 100-25 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 100 kHz and currents up to 100 A for CW and 200 A for pulsed waveforms. The modulator is small and compact and it is designed for mounting with low inductance at laser diodes or for integrating in laser diode modules. It has two analogue inputs for the current set point: a high frequency input (50 Ohm input impedance) with a bandwidth of 100 kHz and a low frequency input with a bandwidth of 100 kHz. Additionally there is a 10 turns potentiometer for generating a CW-current (bias current). All set points are added and build the effective current set point.

Technical subjects to change without notice.

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www.powerconverter.eu	info@powerconverter.eu	+49 (0) 8856 803060

