MESSTEC Power Converter GmbH

Data Sheet Fast Modulator MSM 60-50



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

Diode current CW 0 ... 60 A

Diode current pulsed 0 ... 120 A (short pulses)

Diode voltage0 ... 49 VOutput power2940 W maxPower dissipation90 W max allowed

Inputs

Diode current set point 1 0 ... 500 mV (50 Ohm input)
Diode current set point 2 0 ... 5 V (high impedance)

Enable TTL Reset TTL

Outputs

Diode current monitor 0 ... 55 mV (into 50 Ohm)
Temperature 0 ... 4 V for 0 ... 80°C

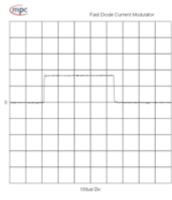
Ready TTL Excess temperature TTL

General specifications

Ambient temperature 0 ... +45 °C
Cooling Required
Dimensions 95 x 61 x 20 mm

Weight 240 g Ordering Code 10100517

* for internal electronics



Supply William 13:544 Stock Surrent 3:544 Rise Same 35ms Fall Tare: 36ms

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Description

The fast diode current modulator MSM 60-50 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 50 kHz and currents up to 60 A for CW and 120 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 50 kHz and a low frequency input with a bandwidth of 50 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.



Warning!

Risk of exposure of hazardous laser radiation in combination with laser light emitting devices!

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