

MOPA Pulsed Fiber Laser

M SERIES

DZM-1.0-2×200-50-E



Engineered with MOPA architecture, this laser provides independent control of pulse width and repetition rate. This flexibility supports superior performance in precision marking, micro-processing, and challenging material applications.

► Application

- Flying laser marking
- Thin metal sheet drilling
- Product QR code traceability
- Paint and plating removal, cleaning
- Laser marking and engraving on metals and non-metals

► Features

- Anti-reflection
- Rugged Design
- Adjustable first pulse
- Adjustable pulse width from 2 ns - 200 ns
- Adjustable pulse repetition rate 1.6 kHz - 3000 kHz

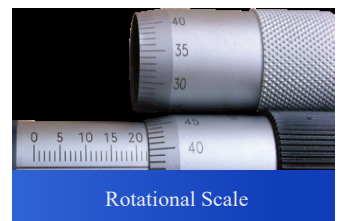
► Sample Display

Stainless Steel Color Marking



Plastic Bitmap Marking

Case Marking



Rotational Scale

Technical Parameters

DZM-1.0-2×200-50-E

Optical Parameters

Wavelength	1064 nm
Output Power	50 W
Max. Pulse Energy	1 mJ
Max. Peak Pulse Power	About 10 kW
Pulse-to-Pulse Stability	< 3 % rms @ 50 kHz
Repetition Rate	1.6 kHz ~ 3000 kHz
Polarization Ratio	Random
Pulse Width	2 ~ 200 ns
Circularity	> 85 %
Beam Quality (M ²)	1.1 ~ 1.5
Beam Diameter at Exit	6 ~ 9 mm
Aiming Beam	Standard
Power Instability	< 1.5 %

General Parameters

Power Supply	24 V
Warm-up Time	10 s
Fiber Length	2.5m (Customizable)
Operation Temperature	0 °C ~ 40 °C
Storage Temperature	-10 °C ~ 60 °C
Relative Humidity	10 % ~ 95 %, non-condensing
Cooling Requirement	Air Cooling
Service Life (at standard conditions)	24-month Free Warranty

Physical Properties

Laser Dimensions	252 mm × 215 mm × 74 mm (L × W × H)
Laser Weight	5.6 kg

► All specifications are typical data and subject to change without notice due to product improvements.



Laser Dimensions (mm)

