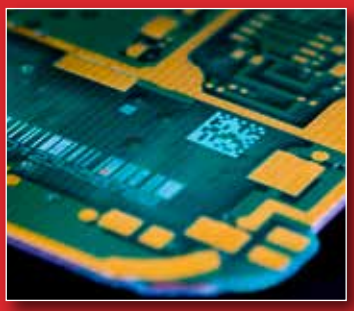
Technical Data

NEW
32-1 CO_2 Laser

Ultra compact 5 Watt CO_2 laser for precise marking and coding applications

High performance CO_2 laser engineered for easy integration and mounting onto compact coding and marking systems.

- Easily fits into tight spaces and onto weight-sensitive marking and coding systems
- Outstanding maximum operating environment temperature (up to 40° C) ensures reliable operation in a wide range of conditions



The perfect ultra-compact, low-power CO_2 laser source for PCB marking and coding applications.

Versatile low-power CO_2 laser source that delivers clean, consistent results on a variety of materials.

Specifications

Specifications are preliminary and are subject to change without notice

Output Specifications	
Wavelength, µm	10.57 - 10.63
Power Output	5 W
Power Stability (cold start)	± 15%
Beam Diameter, mm (at $1/e^2$)	2.3 ± 0.5
Beam Divergence, full angle at $1/e^2$	≤ 8.0 mrad
Ellipticity	<1.2
Polarization	Random
Rise Time (measured at 1 kHz, 50% duty cycle)	<150 µsec
Fall Time (measured at 1 kHz, 50% duty cycle)	<150 µsec
Input Specifications	
Power Supply Voltage	30 VDC ± 2.0 VDC
Power Supply Maximum Current	4.0 A
Input Signals	
Frequency	DC - 25kHz
Cooling Specifications	
Maximum Heat Load	150 Watts
Maximum Tube Temperature	60° C
Minimum Flow Rate	150 CFM per fan (2 required)
Environmental Specifications	
Operating Ambient Temperature Range	5° C - 40° C
Humidity	≤ 80% RH, non-condensing
Physical Specifications	
Length	11.2 in. (284 mm)
Width	2.8 in. (71 mm)
Height	4.2 in. (106 mm)
Weight	7 lbs. (3.18 kg)

Synrad's Smallest Laser

At a fraction over 11 inches (284 mm) long and only 2.8 inches (71 mm) wide, the 32-1 is Synrad's smallest laser. Engineered for compact laser processing systems, the 32-1 easily fits into desk-top sized models. At 7 lbs. (3.18 kg) the 32-1 adds minimal weight, maintains portability, and can easily be integrated into small systems. Built to operate reliably, Synrad's ultra compact 32-1 delivers a high quality laser beam, even in the most demanding conditions.

The Synrad 32-1 shown side-by-side with the 48-1 laser. The 32-1 is 34% smaller and 22% lighter than the 48-1.

Invisible Laser Radiation
Avoid eye or skin exposure to direct of scattered radiation
Class 4 Laser Product.

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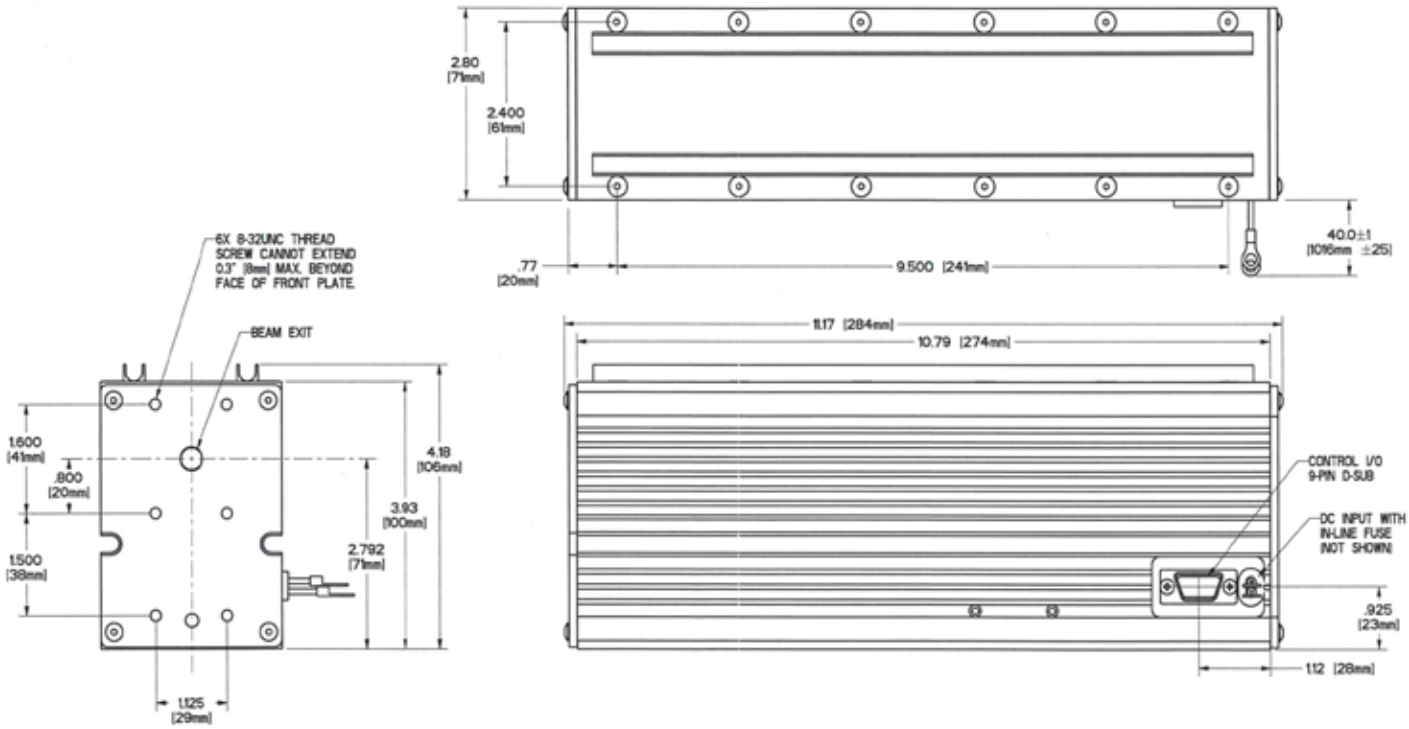
NEW 32-1 CO_2 Laser

Technical Illustrations dimension are in inches (mm)



Recommended Applications

The perfect ultra-compact, low-power CO_2 laser source for PCB marking and coding applications.

Easily applies alpha numeric codes, barcodes, text, and expiration dates to a variety of packaging materials that will not smear or rub off.

Apply permanent marks, text, and codes to variety of parts (both big and small) for faster, easier tracking.

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