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manufactured by **AeroDIODE**

## 940nm 70W Laser Diode Module 70W Fiber-Coupled Module



### **940LD-4-0-0 / LASER-DIODE**

- o CW Output Power 70 W
- o Line Width 6 nm
- o 105 $\mu$ m Multi-Mode Fiber, SMA905 Connector



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## 940NM 70 WATT LASER DIODE

These 940nm lasers offer up to 70 watts of optical output in both pulsed and CW modes of operation. They are coupled to 105 $\mu$ m fiber with a NA of 0.22. These multimode devices are commonly used as pump / excitation sources for fiber laser applications.

## 940LD-4-0-0 / LASER-DIODE SPECIFICATIONS

### Optical Specifications

Wavelength: 940nm ( $\pm$  5nm)  
CW Output Power: 70 Watts  
Spectral Width (FWHM): 6 nm (typ)  
Wavelength shift w Temperature: 0.3 nm/ $^{\circ}$ C  
Wavelength shift w Current: 0.7 nm/A  
Back Reflection Isolation Stage: 1020 - 1200 nm  
Back Reflection Isolation: 30 dB

### Electrical Specifications

Threshold Current: 0.8 A  
Operating Current: 11.5 A \*  
Operating Voltage: 10.5 V  
Conversion Efficiency: 50%  
\* For operating currents above 6 Amps, the electrical connections must be soldered.

### Fiber and Package Specifications

Fiber Core: 105  $\mu$ m, NA 0.22  
Clad Diameter: 125  $\mu$ m  
Buffer / Tube Diameter: 900  $\mu$ m  
Min Bend Radius: 37.5 mm  
Connector: SMA 905  
Dimensions: 48 mm x 80 mm x 16 mm  
Mounting Hole Dimensions: 3.4mm dia / 75 mm x 40 mm  
Storage Temperature: -30 $^{\circ}$ C to 70 $^{\circ}$ C  
Operating Temperature: 15 $^{\circ}$ C to 55 $^{\circ}$ C  
Soldering Temperature: 260 $^{\circ}$ C (max)  
Soldering Time: 10 sec (max)



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## **PRODUCT SALES AND SERVICE:**

Unlimited phone and email support is provided for products purchased through Laser Lab Source. Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by AeroDIODE, Talence, France.

## **PRODUCT WARRANTY:**

This product is sold with a full one-year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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