

MDL-XS-940/1~100mW



**DIODE XS SERIES LASER  
AT 940nm**

It features integrated electronics, plug and play, miniaturization, international standard interface. They are the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.



SPECIFICATIONS

|  |   |
|--|---|
| Wavelength (nm)                                      | 940±5   |
| Operating mode                                       | CW  |
| Output power (mW)                                    | >1, 10, 20, ...,100   |
| Power stability (rms, over 4 hours)                  | <1%, <3%  |
| Transverse mode                                      | Near TEM <sub>00</sub>  |
| Noise of amplitude(rms,20Hz~20MHz)                   | <1%(<0.5%, optional)  |
| M <sup>2</sup> factor                                | <1.5  |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | ~3.5  |
| Beam divergence, full angle (mrad)                   | <1.0  |
| Warm-up time (minutes)                               | <5  |
| Beam height from base plate (mm)                     | 19  |
| Operating temperature (°C)                           | 10~35   |
| Input voltage  | +12VDC  |
| Modulation   | DMOD (TTL) or AMOD (Analog) up to 1MHz<br>DMOD+ AMOD (TTL + Analog) |
| Expected lifetime (hours)                            | 10000   |
| Warranty   | 1 year  |



Note: The laser head needs to be used on a heat sink with good heat dissipation.

| MDL-XS-940  | Optional Power Supply                                |
|---|--|
| <p>74.4(L) ×40(W) ×40 (H) mm<sup>3</sup>, 0.2kg</p> | <p>121(L) ×50(W) ×30.8 (H) mm<sup>3</sup>, 0.3kg</p> |