

MDL-XS-505/1~80mW



DIODE XS SERIES LASER
AT 505nm

Diode XS series laser module at 505nm, features with integrated electronics, plug and play, miniaturization, standardization of interface advantages of continuous diode lasers. It is the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.



SPECIFICATIONS

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| Wavelength (nm) | 505±3 |
| Operating mode | CW |
| Output power (mW) | >1, 2, 3, ...,80 |
| Power stability (rms, over 4 hours) | <1%, <3% |
| Transverse mode | Near TEM ₀₀ |
| Noise of amplitude(rms,20Hz~20MHz) | <1%(<0.5%, optional) |
| M ² factor | <1.2 |
| Beam diameter at the aperture (1/e ² ,mm) | ~1.0 |
| Beam divergence, full angle (mrad) | <1.0 |
| Polarization ratio | >50:1 (>100:1, optional) Horizontal ±5 degree (Vertical Optional) |
| Warm-up time (minutes) | <5 |
| Beam height from base plate (mm) | 19 |
| Operating temperature (°C) | 10~35 |
| Input voltage | +12VDC |
| Modulation option | DMOD (TTL) or AMOD (Analog) up to 1MHz 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-505 | Optional Power Supply |
|---|--|
| <p>79.1(L) ×40(W) ×40 (H) mm³, 0.2kg</p> | <p>121(L) ×50(W) ×30.8 (H) mm³, 0.3kg</p> |