

Laser Modules TO-AL-532-100TEC-OF 532nm 100mW

Description of the Product

Our Laser is based on a DPSS green laser diode. The diode is a combination of Nd: YVO4 and KTP crystals, pumped by a 808 nm laser diode. The diode has a filter window to suppress and prevents IR emission from the diode (residual IR <0.01%).

The DPSS has a narrow range operating temperature. This should be respected, as the nonlinear effect of the laser crystal is very sensitive to temperature. TEC cooling of the module provides the thermal stability needed for a good beam quality.

The laser driver and the TEC elements ensure excellent laser emission stability. The laser is a single mode beam (DPSS diode) with much smaller divergence angle than standard semiconductor laser diode.

The product is compact and easy to integrate in any other OEM application. Each part of our laser has EU Declaration of Conformity (RoHS2).

The TO-AL-532-XXXTEC-OF are connected to optical fiber for better integration in any system. Several core diameter are possible (50, 100, 200 ... μm).

Please, specify the optical fiber connector (SMA905 ...)

All TO-AL laser modules are sold with power supply; you specify a OEM tope (standard offer) or lab adjustable power supply.

Specifications

| | Target | Unit |
|------------------------------------|---------------|-------------|
| Wavelength | 532 | nm |
| Line bandwidth | 0.1 | nm |
| Optical Output Power | 100 | mW |
| Beam Diameter | < 2.5 | mm |
| Power Stability / 4hrs | < \pm 5% | |
| Beam Divergence, Full Angle | <1.5 | mRad |
| Operating Temperature | 20 | °C |
| Spatial Mode | TEM00 | |
| Beam Shape Ratio | <1.1 :1 | Circular |
| Life Span | 10.000 | hrs |
| Modulation (Analog / TTL) | 0-30 | kHz |