



## 638nm, 900mW Free-Space Laser Diode Module

### RLS / R638-900SM

#### OPTICAL SPECIFICATIONS

- Wavelength: 638 nm  $\pm$ 5nm
- Output Power: 900 mW
- Typ. Beam Size [@ 1/e<sup>2</sup>]: 5 mm vertical x 5.5 mm horizontal
- Typ. Full Angle Beam Divergence [mRad, @ 1/e]: 0.2 x 1.6
- Typ. Spectral line width FWHM [@ FWHM]: 1 nm
- Polarization State: TE
- P-P Power Stability [8 h]: TBD
- RMS Power Stability [8 h]: TBD

#### ELECTRICAL SPECIFICATIONS

- Supply Voltage: 7.5 V
- Operating Current: 8 A
- Modulation Voltage Range: 0 - 5 V
- Modulation: Analog/TTL, 600kHz
- Rise Time: TBD
- Fall Time: TBD
- Soft-Start Time: 2000 ms
- Signal to Rise Delay: TBD
- Laser Cooling: TEC

#### MECHANICAL SPECIFICATIONS

- Beam Diameter at Output Aperture: 5 mm
- Height of Beam from Base: 29mm
- Dissipated Power [Bottom Surface]: < 25 W
- Module dimensions (L x W x H): 129 mm x 59 mm x 41 mm

#### OTHER

- Estimated Lifetime: 10,000 hrs

