



Electro Optical Components, Inc.

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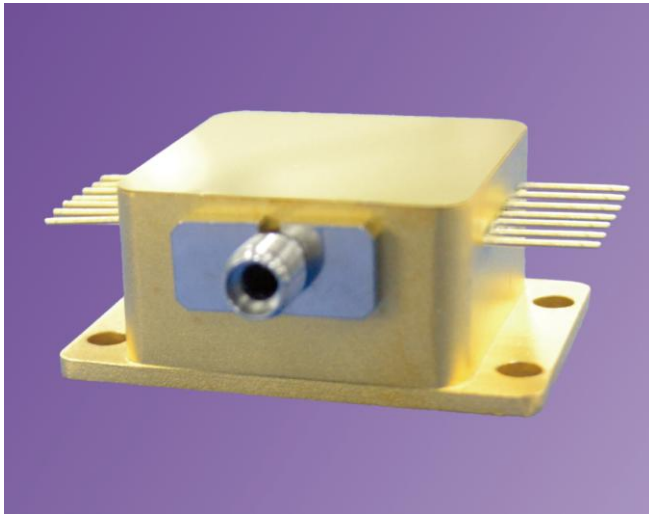
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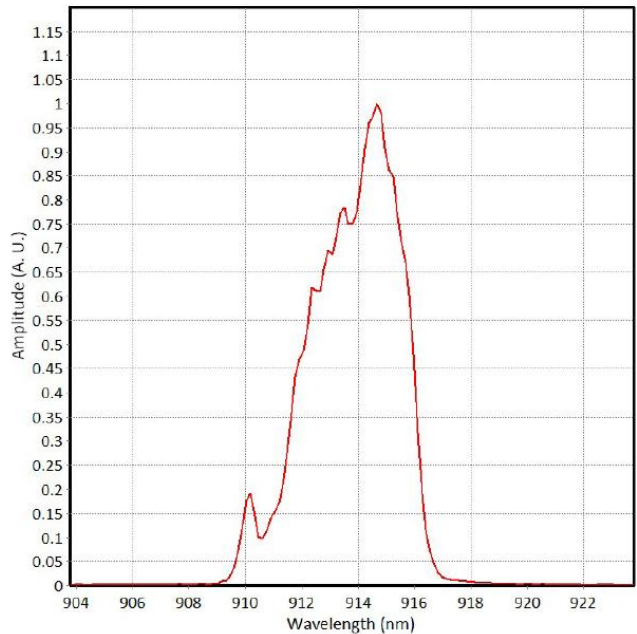
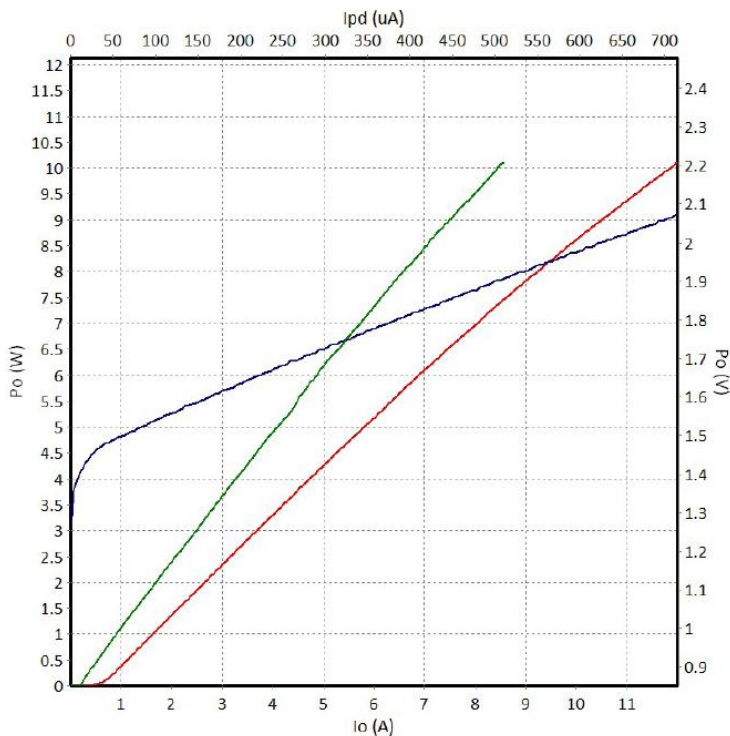
915nm 10W Laser Diode Module

R915±10-10WD-14HHL-PTFS



| Feature |
|----------------------|
| Output power: 10W |
| Wavelength: 976±10nm |
| Fiber core: 200 μm |
| NA: 0.22 |
| Aiming beam: 650nm |
| Application |
| Medical use |
| Material processing |

915nm 10W Characteristics (25°C)



Typical Device Performance(25°C)

| Parameter | | Symbol | Typical Value | Unit |
|-------------|---------------------------------|----------------------------|-------------------------|------------|
| | | | R915±10-10WD-14HHL-PTFS | |
| Optical | CW Output Power | P_{op} | 10 | W |
| | Center Wavelength | λ_c | 915±10 | nm |
| | Spectral Width | $\Delta\lambda$ | <6 | nm |
| | Temperature drift of wavelength | $\Delta\lambda / \Delta T$ | 0.3 | nm/°C |
| Aiming Beam | Output Power | P_a | 2 | mW |
| | Wavelength | λ_a | 650±10 | nm |
| | Voltage | V_a | 5.0 | V |
| Electrical | Threshold Current | I_{th} | 0.62 | A |
| | Operating Current | I_{op} | 12 | A |
| | Operating Voltage | V_{op} | 2.06 | V |
| | Slope Efficiency | η_{es} | 0.8-0.9 | W/A |
| | PD Current | I_{PD} | <3000 | μA |
| | Thermistor | R_t | 10±5%/3450 | kΩ/β(25°C) |
| | TEC Max Current | I_{tmax} | 6.0 | A |
| | TEC Max Voltage | V_{tmax} | 9.8 | V |
| Fiber | Fiber Core Diameter | d_{core} | 200 | μm |
| | Connector | - | SMA905 | - |

Other Parameters

| Parameter | Operating Temperature /°C | Operating Relative Humidity /% | Storage Temperature /°C | Storage Relative Humidity /% | Lead Soldering Temperature(max/°C) |
|-----------|---------------------------|--------------------------------|-------------------------|------------------------------|------------------------------------|
| Min | 10 | - | -20 | - | - |
| Max | 30 | 75 | 80 | 70 | 250(10Sec.) |

Package Dimensions (mm)

| Pin | Function | Pin | Function |
|-----|------------|-----|---------------------------|
| 1 | Case | 8 | TEC(-) |
| 2 | Laser(+) | 9 | FCD PD(P) |
| 3 | Thermistor | 10 | FCD LED(-) |
| 4 | Thermistor | 11 | FCD LED(+);FCD PD(N) |
| 5 | Laser(-) | 12 | Aiming Beam LD(+);[DC 5V] |
| 6 | PD(P) | 13 | Aiming Beam LD(-);[GND] |
| 7 | PD(N) | 14 | TEC(+) |

