



Electro Optical Components, Inc.

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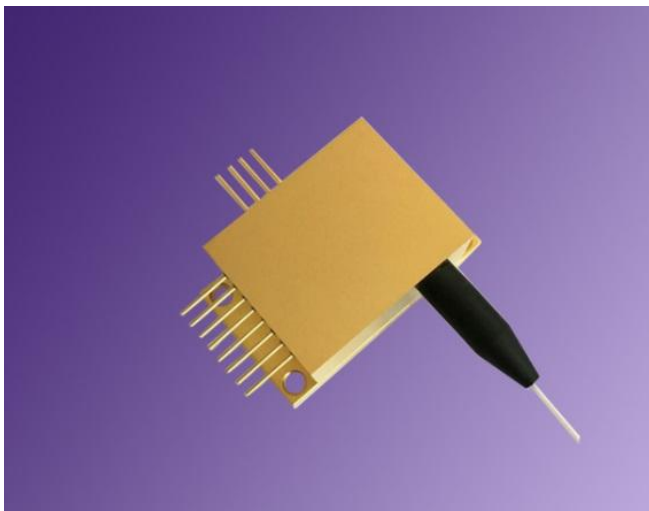
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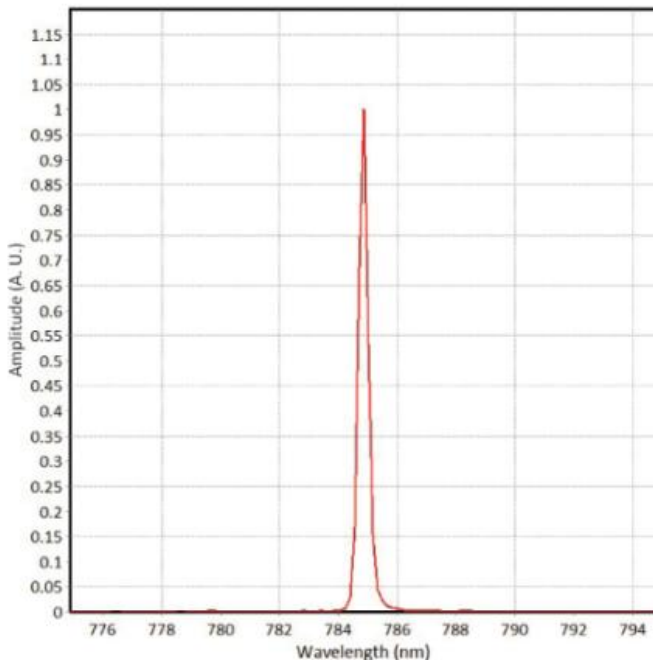
785nm&1064nm 600mW Dual-wavelength Laser Diode Module

R785/1064±0.5-600/600mWF-R2G-TG

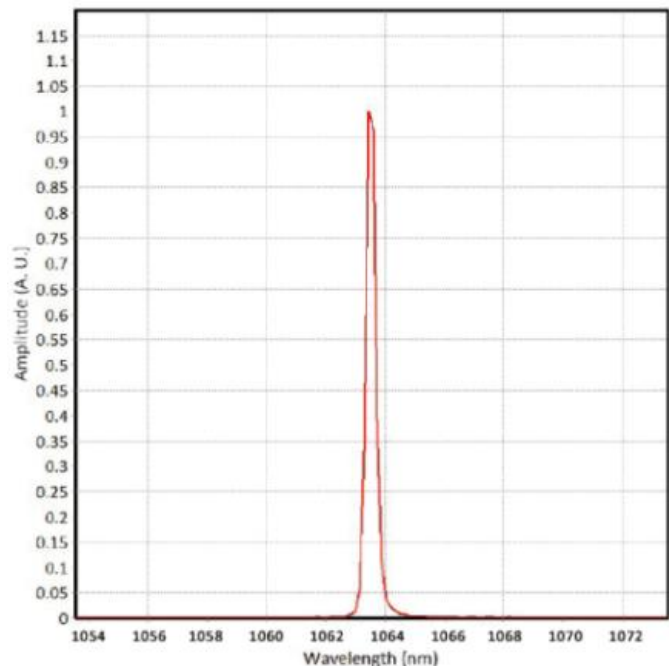


| Feature |
|---|
| Wavelength: 785±0.5nm 1064±0.5nm |
| Output power: 600mW@785±0.5nm 600mW@1064±0.5nm |
| Fiber core: 105 μm, 0.22NA |
| Wavelength stability |
| Current range: 0.4~1.3A Temperature range: 15~30°C |
| Application |
| Spectrum |
| Science |

785nm 600mW Characteristics (25°C)



785nm



1064nm

Typical Device Performance(25°C)

| Parameter | | Symbol | Typical Value | | Unit |
|------------|---------------------------------|-------------------|---------------------------------|----------|------------|
| | | | R785/1064±0.5-600/600mWF-R2G-TG | | |
| Optical | CW Output Power | P _{op} | 600@785nm | 600@1064 | mW |
| | Center Wavelength | λ _c | 785±0.5 | 1064±0.5 | nm |
| | Spectral Width | Δλ | ≤0.1 | | nm |
| | Temperature drift of wavelength | Δλ / ΔT | 0.01 | | nm/°C |
| Electrical | Threshold Current | I _{th} | 0.36 | 0.17 | A |
| | Operating Current | I _{op} | 1.18 | 1.31 | A |
| | Operating Voltage | V _{op} | 1.91 | 1.74 | V |
| | Slope Efficiency | η _{es} | 0.73 | 0.50 | W/A |
| | PD Parameter | I _{mo} | <2000 | | μA |
| | Thermistor | R _t | 10±5%/3450 | | kΩ/β(25°C) |
| | TEC max Current | I _{max} | 6.0 | | A |
| | TEC max Voltage | V _{max} | 8.7 | | V |
| Fiber | Fiber Core Diameter | d _{core} | 105 | | μm |
| | Numerical Aperture | NA | 0.22 | | - |
| | Connector | - | FC/PC,ST,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 | 70 | 90 | 250(10Sec.) |

Package Dimensions (mm)

| Pin | Function | Pin | Function |
|-----|-----------------|-----|-----------------|
| 1 | TEC(+) | 7 | 1064nm Laser(+) |
| 2 | Thermistor | 8 | TEC(-) |
| 3 | Thermistor | 9 | PD(N) |
| 4 | 785nm Laser(-) | 10 | PD(P) |
| 5 | 785nm Laser(+) | 11 | |
| 6 | 1064nm Laser(-) | 12 | |

