



**Electro Optical Components, Inc.**

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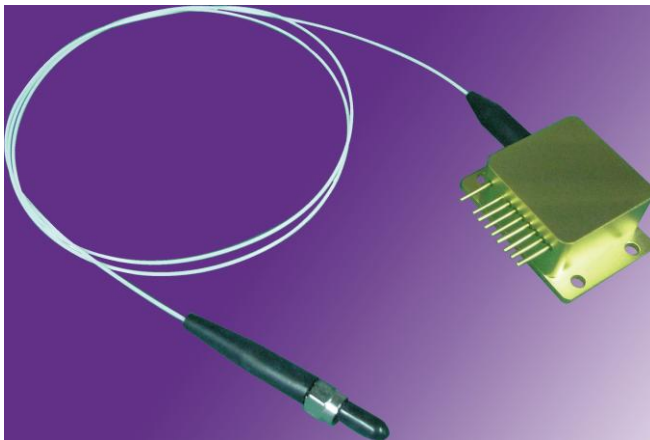
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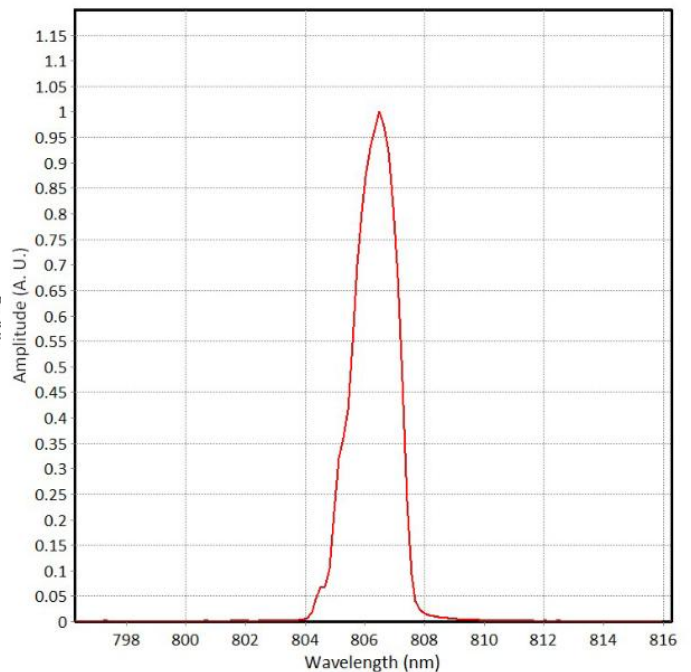
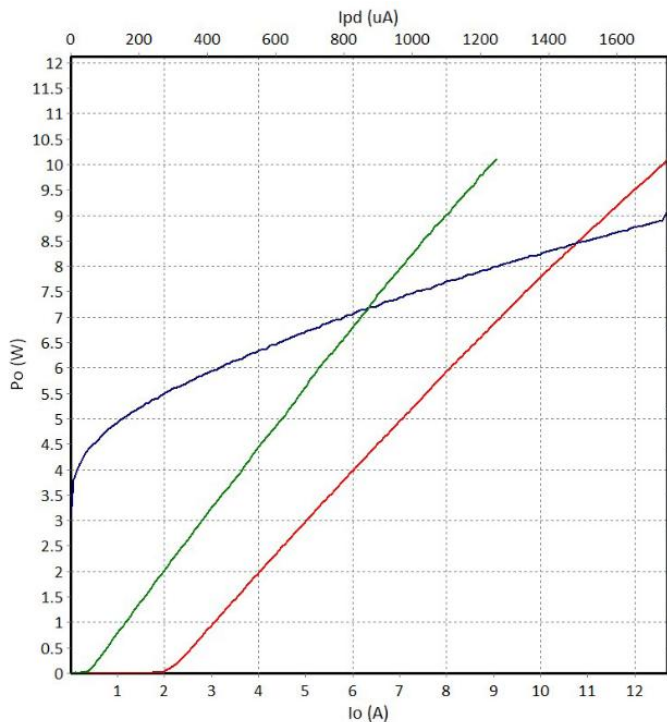
## 808nm 6W Laser Diode Module

R808±10-6WF-09HHL-T



| Feature                    |
|----------------------------|
| Output power: 6W           |
| Wavelength: 808±10nm       |
| Fiber core: 105 μm, 0.22NA |
| Application                |
| Medical use                |
| Material processing        |
| Laser pumping              |

### 808nm 6WM Characteristics (25°C)



## Typical Device Performance(25°C)

| Parameter  |                                 | Symbol                     | Typical Value       | Unit       |
|------------|---------------------------------|----------------------------|---------------------|------------|
|            |                                 |                            | R808±10-6WF-09HHL-T |            |
| Optical    | CW Output Power                 | $P_{op}$                   | 6                   | W          |
|            | Center Wavelength               | $\lambda_c$                | 808±10              | nm         |
|            | Spectral Width                  | $\Delta\lambda$            | <3                  | nm         |
|            | Temperature drift of wavelength | $\Delta\lambda / \Delta T$ | 0.3                 | nm/°C      |
| Electrical | Threshold Current               | $I_{th}$                   | 1.34                | A          |
|            | Operating Current               | $I_{op}$                   | 7.74                | A          |
|            | Operating Voltage               | $V_{op}$                   | 1.96                | V          |
|            | PD Current                      | $I_{PD}$                   | <2000               | 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             | $d_{core}$                 | 105                 | μm         |
|            | Fiber Cladding Diameter         | $d_{clad}$                 | 125                 | μm         |
|            | Fiber Buffer Diameter           | $d_{buffer}$               | 250                 | μm         |
|            | Numerical Aperture              | NA                         | 0.22                | -          |
|            | Connector                       | -                          | FC/P,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                             | 80                      | 70                           | 250(10Sec.)                        |

## Package Dimensions (mm)

| Pin | Function   |
|-----|------------|
| 1   | TEC(-)     |
| 2   | Case       |
| 3   | Laser(+)   |
| 4   | Thermistor |
| 5   | Thermistor |
| 6   | Laser(-)   |
| 7   | PD(P)      |
| 8   | PD(N)      |
| 9   | TEC(+)     |

