

660nm 50mW Laser Diode Modules

G660-50mWF-03BCK-R



Features

Output power: 50mW

Wavelength: $660 \pm 5\text{nm}$

Fiber core diameter: $6\mu\text{m}$ ($9\mu\text{m}$ optional)

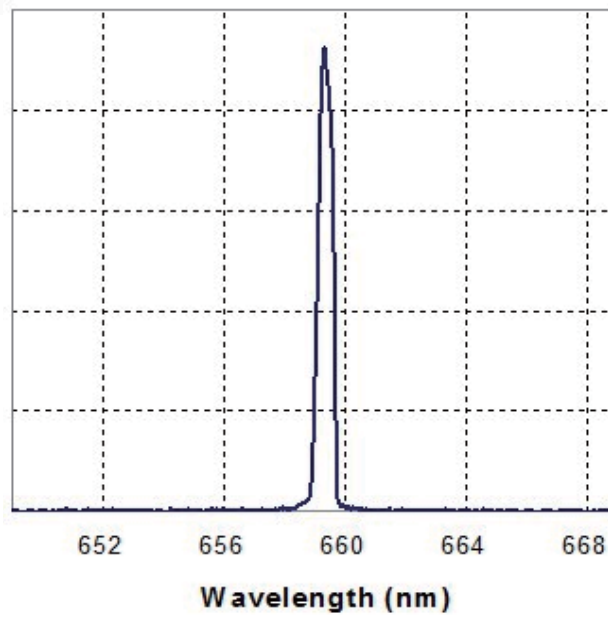
0.14NA

Fiber laser feedback protection

Applications

Pilot light

660nm Characteristics (25°C)



Typical Device Performance (25°C)

| Parameter | | Symbol | Typical | Unit |
|------------|------------------------------------|-----------------------------|--------------------|-------|
| | | | G660-50mWF-03BCK-R | |
| Optical | CW Output Power | p_{op} | 50 | mW |
| | Center Wavelength | λ_c | 660±5 | nm |
| | Spectral Width(90% of Power) | $\Delta \lambda$ | <3 | nm |
| | Wavelength Shift with Temperature | $\Delta \lambda / \Delta T$ | 0.2 | nm/°C |
| | Feedback Protection (1030-1100nm) | FP | >40 | dB |
| Electrical | Threshold Current | I_{th} | 65 | mA |
| | Operating Current | I_{op} | 190-220 | mA |
| | Operating Voltage | V_{op} | 2.6 | V |
| | Slope Efficiency | η_{es} | 0.3 | mW/mA |
| Fiber | Fiber Core Diameter | d_{core} | 6 (9 μm optional) | μm |
| | Fiber Cladding Diameter | d_{clad} | 125 | μm |
| | Fiber Buffer Diameter | d_{buffer} | 245 | μm |
| | Numerical Aperture | NA | 0.14 | - |

Other Parameters

| Parameter | Operating Temperature /°C | Storage Temperature /°C | Storage Relative Humidity /% | Lead Soldering Temperature, 10s max/ °C | MTBF/h |
|-----------|---------------------------|-------------------------|------------------------------|---|--------|
| Min | 10 | -20 | - | - | 5000 |
| Max | 30 | 80 | 90 | 250 | - |

Package Dimensions (mm)

| Pin | Function |
|-----|-----------|
| 1 | Laser (+) |
| 2 | Laser (-) |
| 3 | - |

