

Multimode fiber coupled laser diode, 50mW @ 405nm, QFLD-405-50M



- Multimode Fabry Perot (FP) laser.
- CW or pulsed operation, 0.5ns rise time.
- Operating temperature range -20 °C to +50°C.
- Wavelength/temperature coefficient 0.1nm/°C.
- Built-in thermo-electric cooler and thermistor.
- 62.5um multimode fiber pigtail.
- Optional FC/PC or FC/APC connectors.



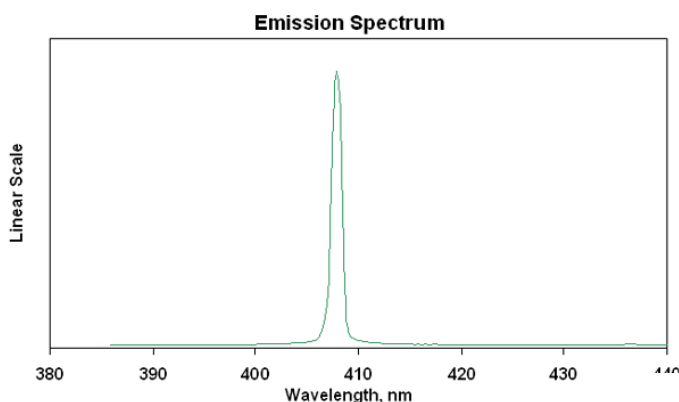
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Specifications

Test conditions: temperature 25°C, power 50mW, CW operation

| Parameter | Symbol | Min | Typ | Max | Unit |
|----------------------------------|-------------|-----|-----|------|------|
| Optical power from pigtail | P_f | 40 | 50 | | mW |
| Wavelength | λ_c | 395 | | 415 | nm |
| Forward current | I_f | | 140 | 200 | mA |
| Threshold current | I_{th} | | 33 | | mA |
| Forward voltage | V_f | | 5.3 | 6 | V |
| Rise time in pulse mode | t_r | | 0.5 | | ns |
| TEC current | I_{TEC} | | | 0.5 | A |
| Thermistor resistance @ 25°C | | 9.5 | 10 | 10.5 | KOhm |
| Lead soldering temperature @ 10s | - | | | 260 | °C |
| Storage temperature | T_{stg} | -40 | | 70 | °C |
| Operating case temperature | T_c | 0 | | 60 | °C |

Spectrum



Pin Configuration

