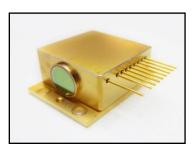
9.00 μm FABRY-PEROT (FP) QCL





HIGH HEAT LOAD (HHL) PACKAGE

OVERVIEW

- Thermo-electrically cooled. External heat sink still required.
- Sealed in a nitrogen-purged atmosphere.
- Package dimensions (approx): 1.75 x 1.25 x 0.72 in (excluding pins).

LASER SPECIFICATIONS

| | | Specs | Units |
|-------------------|-------|---------|-------|
| Process | | FP | |
| Oper. Temperature | | 15 – 45 | °C |
| Facet Coating | Front | None | |
| | Back | HR | |

ELECTRO-OPTICAL CHARACTERIZATION

| | | Specs | Units |
|--------------------|-------------------|-------|-------|
| Driving Conditions | Operation Mode | CW | |
| | Temperature | 15 | °C |
| Electrical | Thresh. Current | 0.73 | А |
| | Max. Current | 1.60 | А |
| | Thresh. Voltage | 9.4 | V |
| | Max. Voltage | 11.9 | V |
| | Laser Efficiency | 3.1 | % |
| Optical | Max. Power Output | 587.2 | mW |
| | Center Wavelength | 9.00 | μm |

SPECTRAL CHARACTERIZATION AND BEAM QUALITY

| | | Specs | Units |
|--------------------|-----------------|-------|-------|
| Driving Conditions | Operation Mode | CW | - |
| SMSR | | 30 | dB |
| Beam Profile | Full Beam Waist | 3.15 | mm |
| | M ² | 1.09 | |