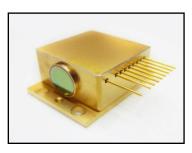
# 4.53 μm FABRY-PEROT (FP) QCL





## HIGH HEAT LOAD (HHL) PACKAGE

#### **O**VERVIEW

- 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	0.61	Α
	Max. Current	1.20	Α
	Thresh. Voltage	13.4	V
	Max. Voltage	14.8	V
	Laser Efficiency	3.7	%
Optical	Max. Power Output	650.6	mW
	Center Wavelength	4.53	μm

## SPECTRAL CHARACTERIZATION AND BEAM QUALITY

		Specs	Units
Driving Conditions	Operation Mode	CW	
SMSR		30	dB
Beam Profile	Full Beam Waist	2.36	mm
	M <sup>2</sup>	1.19	