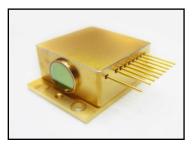
# 4.53 µm DISTRIBUTED FEEDBACK (DFB) QCL





## HIGH HEAT LOAD (HHL) PACKAGE

#### OVERVIEW

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- 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		DFB	
Oper. Temperature		15 – 45	°C
Facet Coating	Front	AR	
	Back	HR	

## ELECTRO-OPTICAL CHARACTERIZATION

		Specs	Units
Driving Conditions	Operation Mode	CW	
	Temperature	15	°C
Electrical	Thresh. Current	0.13	А
	Max. Current	0.24	А
	Thresh. Voltage	11.9	V
	Max. Voltage	13.3	V
	Laser Efficiency	3.8	%
Optical	Max. Power Output	121.1	mW
	Center Wavelength	4.53	μm

### SPECTRAL CHARACTERIZATION AND BEAM QUALITY

		Specs	Units
Driving Conditions	Operation Mode	CW	
Wavelength Tuning	Temperature	0.40	nm/K
	Current	50.0	nm/A
SMSR		30	dB
Beam Profile	Full Beam Waist	2.63	mm
	M <sup>2</sup>	1.24	