FP-QCL Laser diode



Description

LD-PD provides single-transverse-mode and multi-longitudinal-mode quantum cascade lasers (QCLs) with a wavelength range of 3-10μm, which can be applied in multiple fields such as laser biological imaging, lidar, and molecular spectroscopy.

Features

- Wide wavelength coverage range
- High side-mode suppression ratio (SMSR)
- High output power, with a maximum of 2.5 W
- Single-transverse-mode and multi-longitudinal-mode output

Key Parameter

Parameters

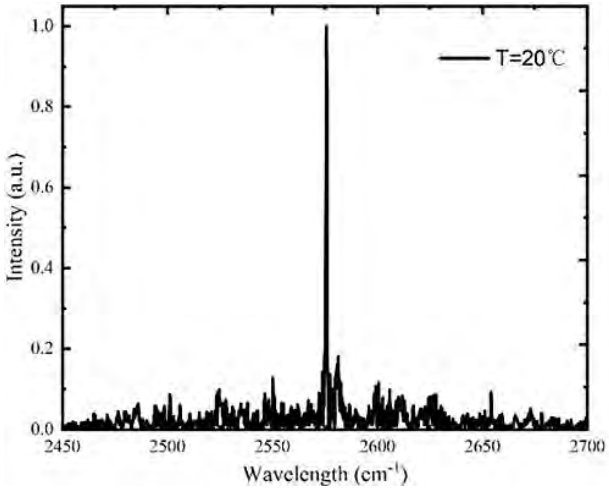
Electrical Parameters	
Operating Mode	CW/PW
Laser Type	FP
Operating Temperature	20 °C
Thermistor Resistance	10 kΩ (@25°C)
Optical Parameters	
Side Mode Suppression Ratio	25 dB

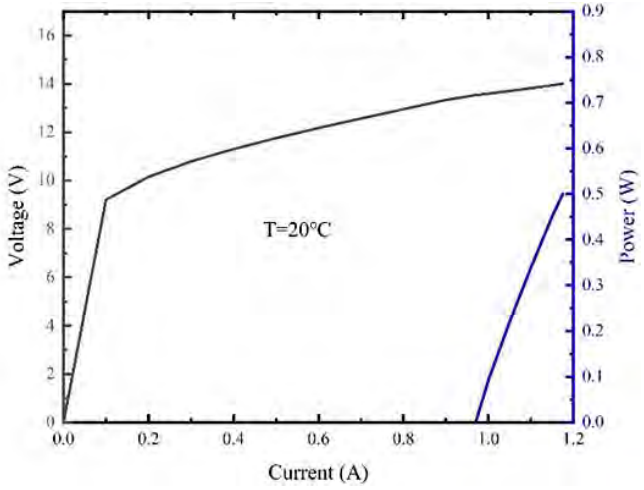
Linewidth		Multimode
Packaging		
Window	Window Material	ZnSe
	Window Type	Wedge/Parallel
	Window Diameter	9.8 mm
Sealing Method		Dry Nitrogen
Package Type		HHL

Wavelength List

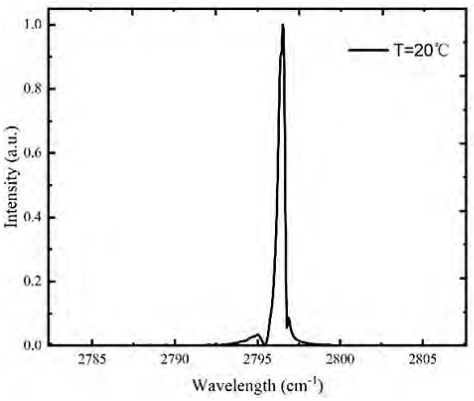
Product Model	Wavelength (μm)	Wavenumber (cm⁻¹)	Output Power	Threshold Current
QCLFP03-2796HC	3.57	2796	≤300mW	≤1.0A
QCLFP03-2575HC	3.88	2575	≤500mW	≤0.95A
QCLFP04-2480HC	4.03	2480	≤1000mW	≤0.95A
QCLFP04-2282HC	4.35	2282	≤1500mW	≤1.25A
QCLFP04-2169HC	4.61	2169	≤2500mW	≤0.8A
QCLFP08-1222HC	8.15	1222	≤1700mW	≤0.60A
QCLFP08-1158HC	8.63	1158	≤1400mW	≤0.65A
QCLFP09-1058HC	9.45	1058	≤900mW	≤0.72A
QCLFP10-0951HC	10.5	951	≤300mW	≤0.70A

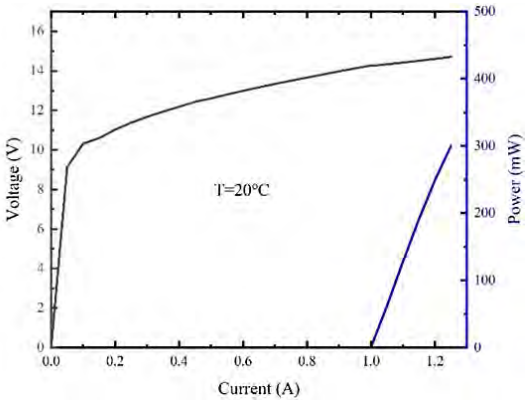
OE Characteristics



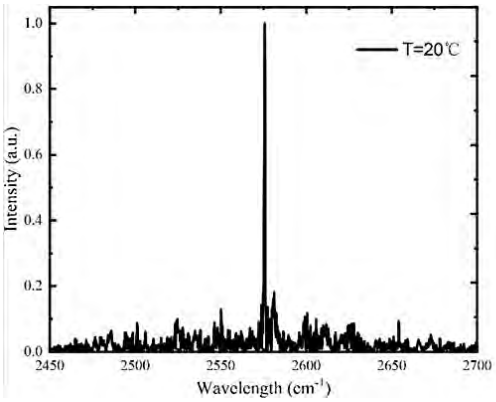


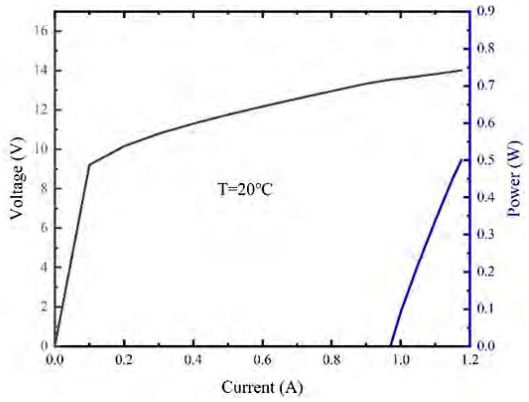
3.57 μm FP QCL



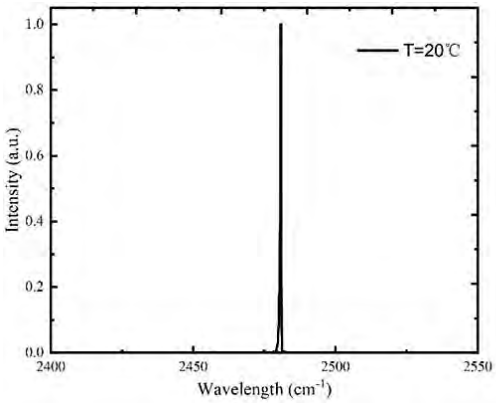


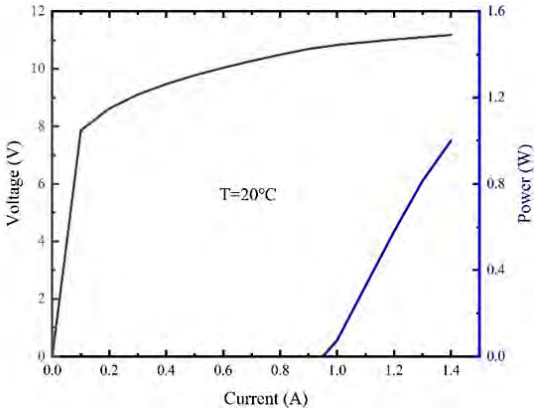
3.88 μm FP QCL



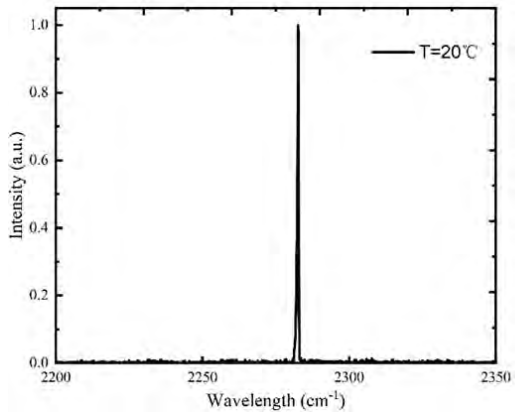


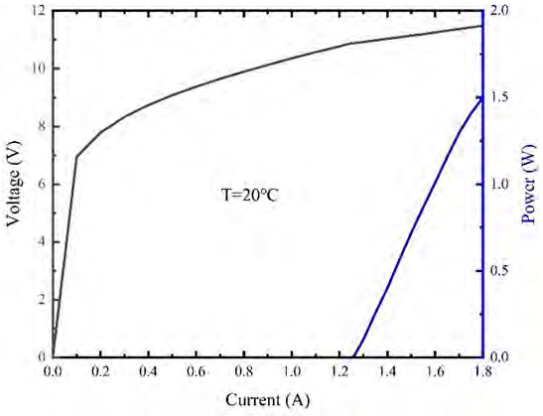
4.03 μm FP QCL



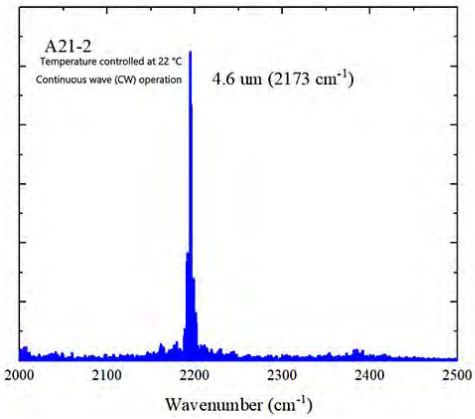


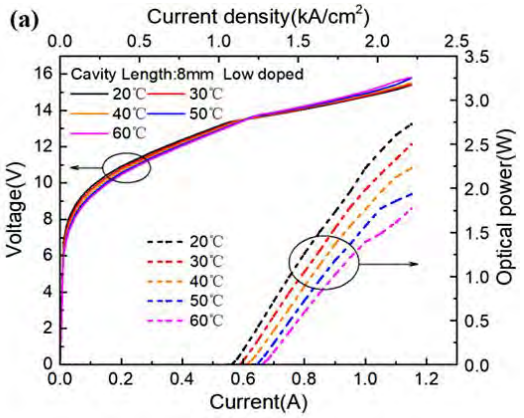
4.35 μm FP QCL



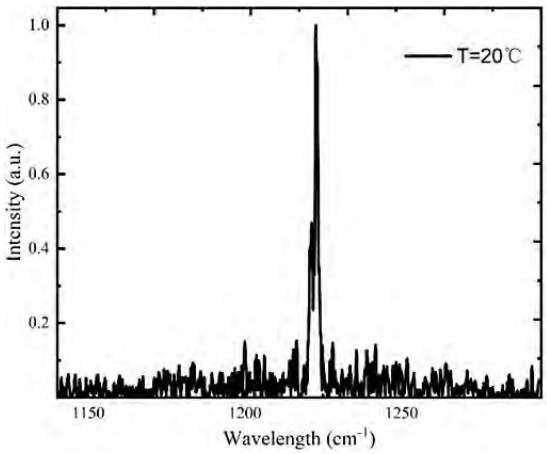


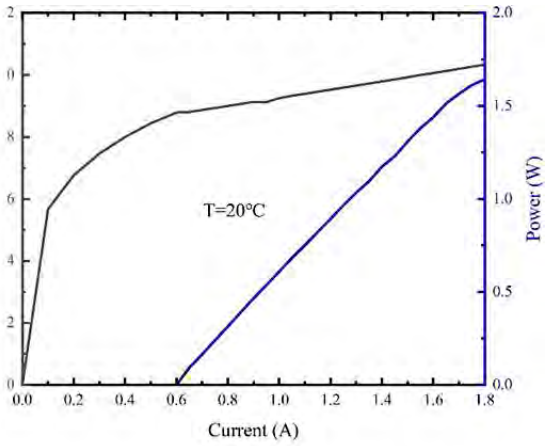
4.61 μm FP QCL



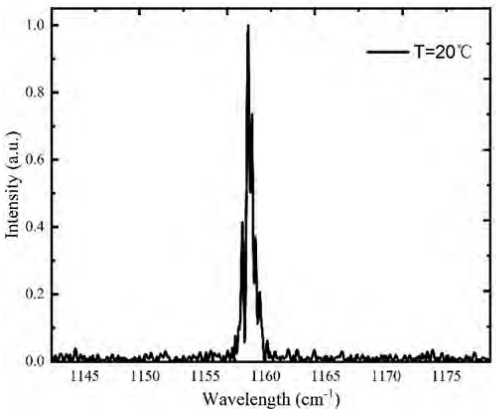


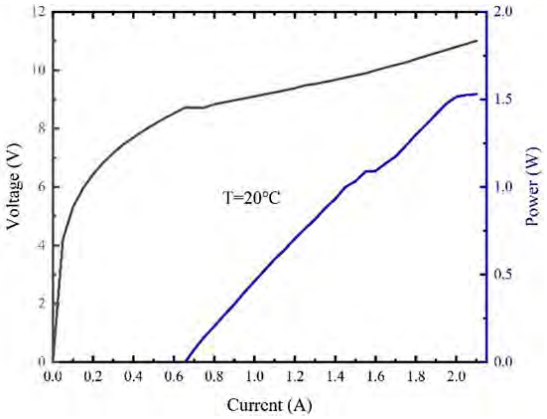
8.13 μm FP QCL



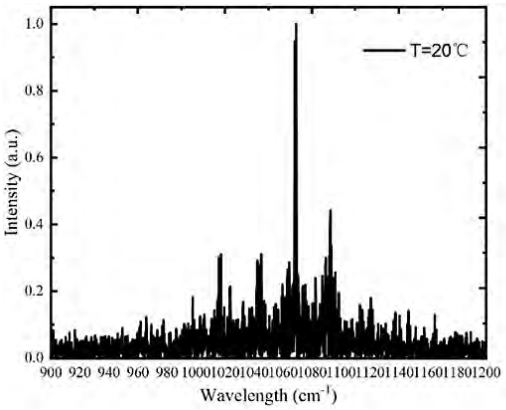


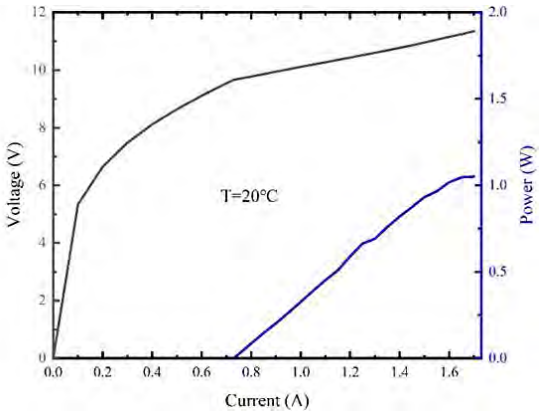
8.63 μm FP QCL



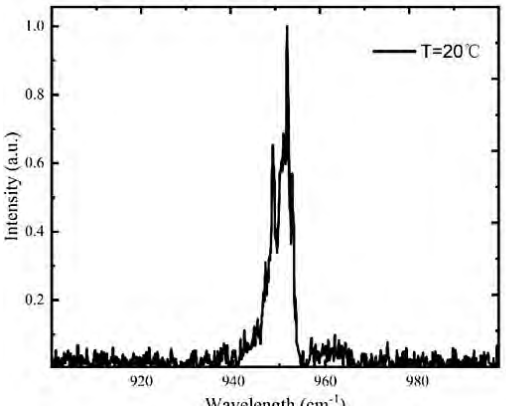


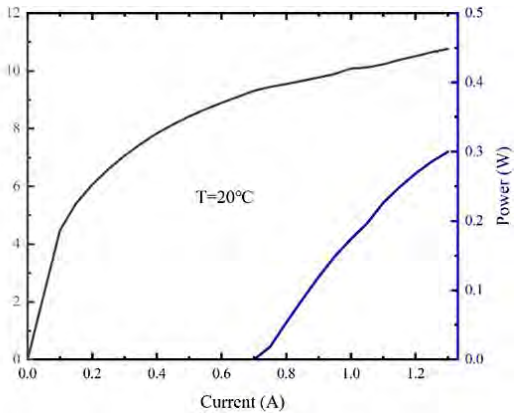
9.45 μm FP QCL





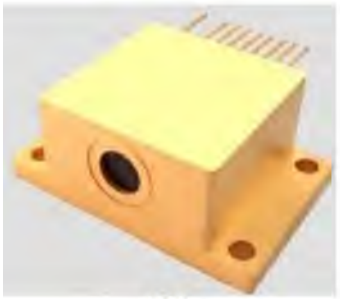
10.5 μm FP QCL





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Package Size



HHL

