

DFB characterization for QCL device # **CM-376-DFB01**

	Data	Comments
Cavity dim.	12μm x 2mm	<i>Emitter width x length</i>
Submount dim.	6x6x4 mm	<i>Mounted epi-down on Cu – C mount</i>
Oper. Temp.	15 - 60C	<i>All data at 15C</i>
Center wavelength	7.76 μm	<i>T=15C, cw</i>
Thresh. Current	0.5A	<i>T=15C, cw</i>
Max. Current	0.85A	<i>T=15C, cw</i>
Thresh. Voltage	7.8V	<i>T=15C, cw</i>
Max. Voltage	8.9V	<i>T=15C, cw</i>
Max Power out	135mW	<i>uncoated, single mode, 1 side only</i>
Max Efficiency	4.2%	<i>Total power, single mode</i>
Temp. tuning	0.6 nm/K	<i>T=10-60C, cw</i>
Current tuning	35 nm/A	<i>T=15C, cw</i>

C - mounted devices


Mount dimensions (approx, excluding leads): 6x6x4 mm
 Laser cavity length: 2 mm

Confidential