

Alpes Lasers S.A. Avenue des Pâquiers 1 2072 St Blaise Suisse

CW Single Mode Laser / CW-SM-Q-1030-15-0.9-HHL-L

CW Single Mode Lasers (or CW-DFB lasers) are able to emit a single wavelength at a time. They can be tuned within a range that can reach up to 10 cm-1; there exists a variety of modulation schemes which can be used for different purposes. Single Mode Lasers are mostly used for spectroscopy. To be operated in continuous-wave (CW).

Specifications for CW-SM-Q-1030-15-0.9-HHL-L	
Laser type	QCL quantum-cascade laser
Laser Far-field	ТМОО
Operating mode	CW continuous wave
Emission type	SM singlemode
Target frequency [cm ⁻¹]	1030.0 ± 0.0
Avg optical power [mW]	15.0
Full Tuning [cm ⁻¹]	0.9
Temperature Reachable Range [cm ⁻¹]	3.0
Is Centered	No
Package Interface	HHL-L
Heatsink temperature max [°C]	20
Fabrication time [days]	10

Definitions		
Laser far-field	Spatial mode of the laser in the far field.	
Operating mode	Operating mode of the driver electronics.	
Emission type	Spectral behavior of the laser.	
Target frequency [cm ⁻¹]	Target single-mode emission frequency.	
Avg optical power [mW]	Average optical power at target emission frequency.	
01 1	Emission tuning range accessible by changing the current while keeping the temperature fixed.	
	Emission tuning range from threshold at lowest temperature to maximum current at maximum temperature.	
Package interface	Laser packaging: either on ceramic submount, or on copper submount, or in specific housing.	
Heatsink temperature [°C]	Maximum temperature of the heatsink on which the package will be fixed.	