FLAME-780

Frequency-Stabilised Laser Module with Integrated Reference Cell

COMPACT & ROBUST FREQUENCY-STABILISED LASER

60 x 40 x 15.5 mm

FLAME-780 is a compact, frequency stabilised laser module with integrated vapour cell that allows locking to spectral features of an atomic reference. The FLAME laser module is fabricated using Alter Technology UK's advanced packaging techniques that employ high reliability telecoms manufacturing and space qualified processes.

Key Features

Robust miniaturised laser with integrated reference cell

120 mW output power

Typical linewidth 150 kHz, 100ms

Free space output

780 nm standard, other wavelengths available on request

Benefits

Stable frequency lock

Small size, 60 x 40 x 15.5 mm

No moving parts or piezos

40 GHz mode-hop free tuning

Applications

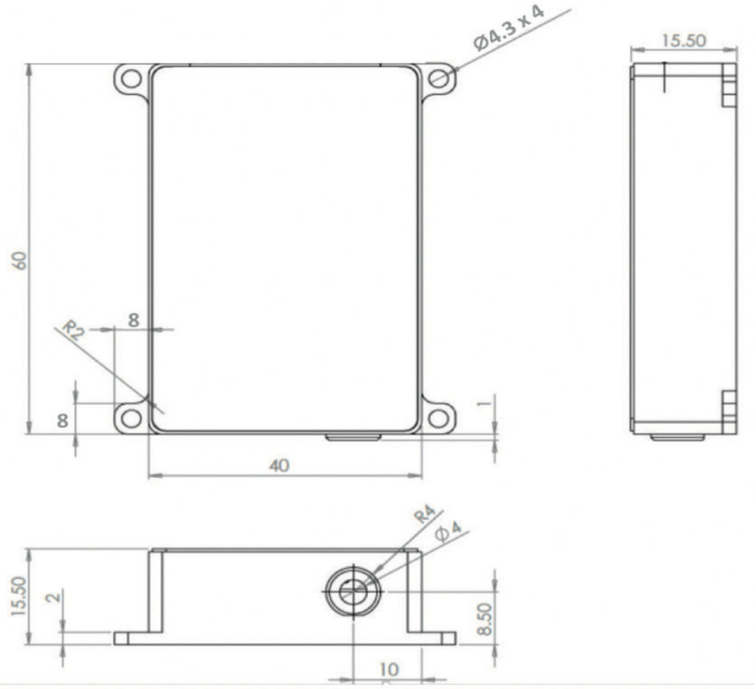
Cold atom trapping

Atomic clocks

Position, Navigation and Timing (PNT)

Sensors

Mechanical Dimensions



Typical Performance

Parameter	Value
Wavelength*	780.24 nm
Linewidth	150 kHz, 100 ms
Output power	120mW
Amplitude stability with frequency control	< 0.1 %
Beam characteristics	0.5 mm FWHM, TEM00
Divergence	< 2 mrad FWHM
Polarization	Linear, 100:1
Operating temperature range	+15 to +30 °C

*Other wavelengths available on request

For more information:

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