

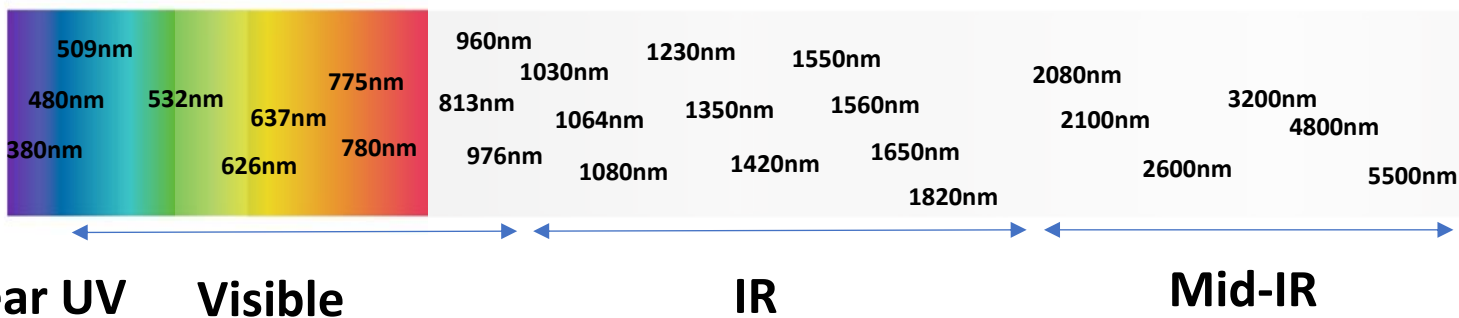
Fiber Coupled Bulk Module

version 1.0/2023

Fiber coupled bulk module for non-linear wavelength conversion

Utilising our extensive range of bulk MgO:PPLN crystals we can provide customisable solutions with fiber coupling on the input and output

- Fully customisable compact solution
- Fiber input, fiber or free-space output
- Easy to use, with no optical alignment
- Single-pass, high efficiency design
- Robust with long lifetime
- Designed for OEM integration through to R&D use



- Wide range of crystal availability from stock to custom designs, covering near UV to mid-infrared wavelength generation
- Solutions available for SHG, SFG, DFG, OPA, SPDC, ...
- Compatible with CW and pulsed operation
- 1x1, 2x1, 1x2 input/output fiber configurations
- Options for power monitoring, control and output filtering
- Integrated TEC and resistive heater options
- Compatible with Covesion temperature controllers

Email sales@covesion.com
Tel +44 (0)1794 521 638
Web www.covesion.com



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Example Solution

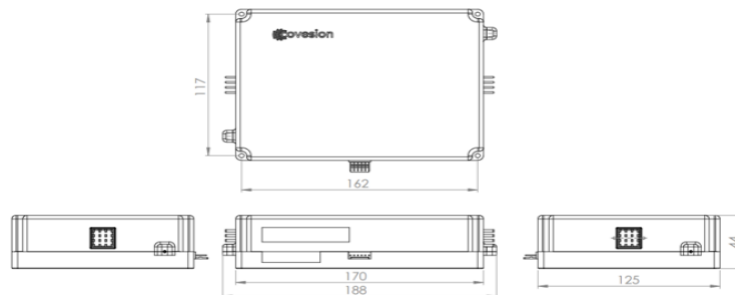
Fiber-coupled (input and output) bulk module for 1064nm Second Harmonic Generation (SHG)

- A reliable method of SHG generation from 1064nm pumping
- Providing 125mW 532nm output power*
- Resistive heater control of phase match temperature**

Example Specification*

Non-linear interaction	Type 0 (ee-e)
Input wavelength for SHG [nm]	1064
Output wavelength [nm]	532
Phase match temperature between [°C]	30 to 70
CW pump power [W]	2
SHG output power [mW]	125
Fiber connector	PM-FC-APC
Input/ Output fiber	PM1064/PM488
Connector keyway alignment	Slow Axis
Dimensions (excluding connector) [mm]	170 x 125 x 44

*Specifications are representative of typical product performance



Engineering drawing (mm)

Accessories**

Temperature controller OC3

Temperature controller OC3-PCB

Temperature controller MC1



**Depending on selected heating solution

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