

## Duplex Module Red / Green



IMM Photonics has developed a new duplex modul as a pilot laser for high-power laser systems for the use in medical engineering or material processing.

A red (635 nm) and a green laser diode (520 nm) are coupled into a common fiber. The fiber end can either be bare or quipped with all readily available fiber optic connectors during production. Other fibers and fibers length are available upon request.

A stop filter was integrated for safe usage in high-performance lasers. It prevents reflections of the beam from affecting the laser diodes.

### ADVANTAGES

- Small dimensions
- High mechanical stability
- Multiple adjustment possibilities
- Cost-efficient even with small volumes as standard design

### TECHNICAL SPECIFICATIONS

Wavelength	520 nm	635 nm
Optical Power ex fiber	typ. 3.5 mW	typ. 6.5 mW
Fiber	50 µm, NA 0.22	
Fiber length	typ. 35 cm	
Connector	typ. FC / PC, optional: bare fiber, ST, SC...	
IR Filter	yes	

Subject to technical modifications. As per 06/2025.

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challenge

