

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

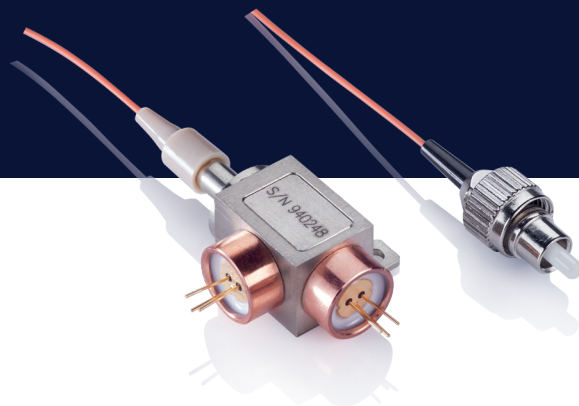
TECHNICAL SPECIFICATIONS

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

