



PRELIMINARY DATA SHEET

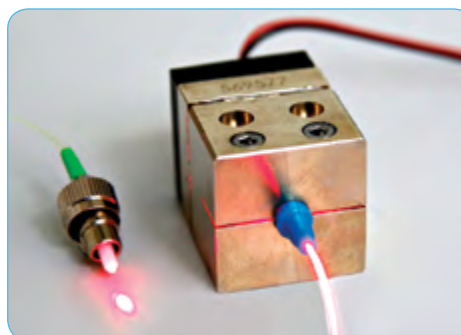
Singlemode Pigtail

Temperature stable singlemode fiber coupled laser diode

Passive cooled Singlemode Pigtail for application with high power stability requirements over a wide temperature range. The rugged and compact design is predestinated for applications in harsh environments like industry, medicine, geodesy and measurement systems.

FEATURES

- Output power stability over a wide temperature range
- Passive cooled – without TEC (thermo-electrical cooler)
- Robust against shock and vibration
- Compact design for integration in larger systems
- Various systems with a wide wavelength and power range available (see Matrix next page)
- High beam quality ex fiber (TEM00-Mode)

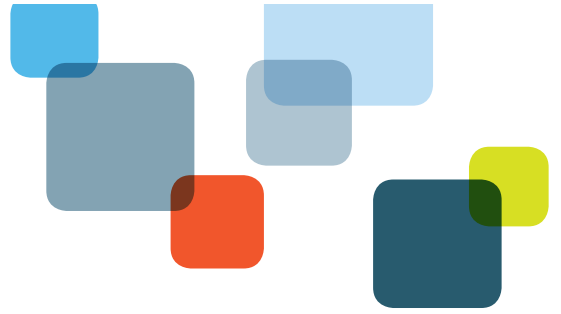


Singlemode Pigtail

General specifications

Parameter	Value	Note
Wavelengths	450 nm*, 515 nm, 635 nm, 640 nm, 655 nm, 660 nm, 785 nm, 830 nm, 850 nm	* under development
Output power (ex fiber)	from < 1 mW up to 40 mW	depending on laser diode - see matrix
Operating temperature	from -10°C to +50°C	
Storage temperature	from -20°C to +70°C	
Power stability	15 % (typ.)	evaluated for 635 nm and 515 nm Singlemode Pigtails over a range of -10°C to +50°C
Supply voltage	from 5 V to 9 V	depending on laser diode
Modulation via	linear voltage / PWM signal	analog / digital
Modulation modes	active high/low	
Fiber connector	FC/APC (standard)	others on request
Fiber protection tubing	900 µm	
Laser safety class	1 - 3B	depending on laser diode

Mechanical Dimensions		
Housing dimensions	25.5 mm x 25.5 mm x 35 mm	
Fiber length	2 m	
Electrical cable length	2 m	
Distance mounting holes	12 mm	2 x M3 screw
Distance mounting threads	10 mm	2 x M2.5 thread



Matrix

$\lambda \setminus P$ (@ 25 °C, ex fiber)	< 1 mW	1 - 2 mW	1 - 3 mW	2 - 7 mW	2 - 17 mW	3 - 17 mW	2 - 20 mW	3 - 40 mW
515 nm	X		X			X		
635 nm - 640 nm	X	X			X			
655 nm - 660 nm	X	X					X	
785 nm	X		X					X
830 nm					X			
850 nm	X	X		X				

ORDERING INFORMATION

PRODUCT #

