

Fiber Coupled PM Pulsed Laser

(1550 nm, ns pulse, single mode, 3W average)

Product Description

Agiltron produce high performance Fiber Coupled Single Mode Pulsed PM Laser source for LiDAR applications. It features single mode polarization maintaining output, high optical power, excellent output stability over a wide temperature range, high efficiency, low cost, and high reliability. The unit is made based on Er-doped fiber technology. The laser source is covered by a 2-year warranty. The laser source can also be configured as a turn key unit with build-in controller for lab use. Agiltron also provide customers design.

We provide output beam collimator and isolator choices.



Optical Specifications

Pulsed Fiber Laser	Min	Typical	Max	Unit
Output Wavelength	1548		1552	nm
Average Output Power		3		W
Pulse Time Width	5.5	6	6.5	ns
Pulse Linewidth (FWHM)			0.3	nm
Pulse Energy @486kHz		6.2		μJ
Pulse Repetition	450	486	1000	KHz
Polarization Extinction Ratio	17	20		dB
Beam Quality		1.2	1.7	M ²
Output Power Stability (30 m warm-up)			4	%
Output Power Turnability	10		100	%
Monitoring Fiber Port		FC/APC	connector	
Output Isolation	30	35		dB
Electrical Power Consumption		40	50	W
Input DC Voltage	22		26	V
Output Fiber Type	Panda	1550	XP	
Operating Temperature Standard	-5		75	°C
Operating Temperature Special version	-30		85	°C
Storage Temperature	-40		100	°C
Dimension	170x150	X30mm		mm

Features

- Compact
- Ultra-Stable
- Low Cost
- High Reliability
- High Efficiency

Applications

- R&D Applications
- Instrumentations
- Sensors



Electrical Control

Pulsed Fiber Laser	Min	Typical	Max	Unit
Control Interface	RS232			
Digital Signal Level (TTL)	0		5	V
Trigger Signal Level (LVTTTL)	0		3	V

1. Pulse width can be adjustable via software upon request;
2. Frequency is adjustable via software upon request;

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

PPFL-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Package	Isolator	Collimator	Configuration	PM Ratio	Average Power	Connector	
Turnkey =1 Module =2 Special = 0	Yes =1 No =0	Yes =1 No =0	Standard =1 Special =0	17dB =1 25 dB =2	10 mW=01 20mW =02 50 mW = 05 100mW =10 200mW = 20	FC/PC = 1 FC/APC = 2 LC = 3 SMA = 6 Special = 0	