

1064nm Pulsed Laser Source Module



Product Description:

The 1064nm pulsed laser source module of Connet is specially designed for pulse application. It is an ideal seed laser for pulsed fiber laser. This laser source module internally employs the high-performance diode laser which is especially designed for pulse application. The laser is modulated directly to pulse laser by the pulse circuit with the optimized design. The ns level, MHz pulse output can be achieved with the peak power up to 1W.

The 1064nm pulsed laser source of Connet adopts the module package with the compact structure and tiny volume with 12V DC supply, industrial standard RS232 control interface and built-in signal generator. The user can control the source module and operate it easily through the upper computer software. The pulse output can be also achieved by the external TTL trigger signal, which is very suitable for system integration.

Applications:

- Seed laser for pulsed fiber laser
- Test and measurement
- Optical fiber sensing
- Spectrum analysis
- Other lab applications

Features:

- Operating wavelength: 1032-1080nm
- Peak power: up to 1W
- Short pulse operation 1ns-1us
- Output isolation
- High stability and reliability



Specifications:

Parameter	Unit	Specification		
		Min	Typ.	Max
Part no.		VLSS-1064-M-PL		
Operating wavelength	nm	1032	1064	1080
Spectral width (FWHM)	nm	-	-	1
Peak power ¹	mW	-	-	1000
Pulse rise and fall time	ns	-	2	-
Pulse width	ns	1	-	1000
Repetition rate	kHz	-	-	1000
Side-mode Suppression Ratio (SMSR)	dB	20	-	-
Output power stability (15mins) ²	%	-	±0.5	±1.0
Output power stability (8hrs) ²	%	-	±1.0	±2.0
Output power adjustable range	%	0	-	100
Output power adjustable mode		Coarse / Fine		
Operating voltage	V _{DC}	12		
Power consumption ³	W	-	-	30
Operating temperature	°C	0	-	50
Storage temperature	°C	-40	-	85
Output fiber type		SM fiber (PM optional)		
Output fiber length	m	> 1		
Optical connector		FC/APC (other options available)		
Dimension	mm	150(L)x125(W)x25(H)		

Specifications:

- The higher peak power is available.
- The output power stability is measured under 25°C after 30 minutes' warm-up.
- The max power consumption is tested under the extreme conditions.

Ordering Information:

- VLSS-1064-M-PL-XX-YY-ZZ
- M: Module
- PL: Pulse mode
- XX: Pulse width in ns; YY-Repetition rate in kHz; ZZ-Peak power in W