

LASER DIODE FTLD-1200-05S-BTF

FTLD-1200-05S-BTF is 1200nm laser diode based on GaInAsP/InP PBC quantum well structure fabricated by MOCVD and LPE. The laser diode main features are high reliability and ESD insensitivity.

FTLD-1200-05S-BTF is CW single mode injection semiconductor laser. It is supplied in butterfly housing built-in monitor photodiode, TEC, thermistor and microoptic. The laser is suitable for application in various opto-electronic systems.

Optical and electrical characteristics (T = 25°C):

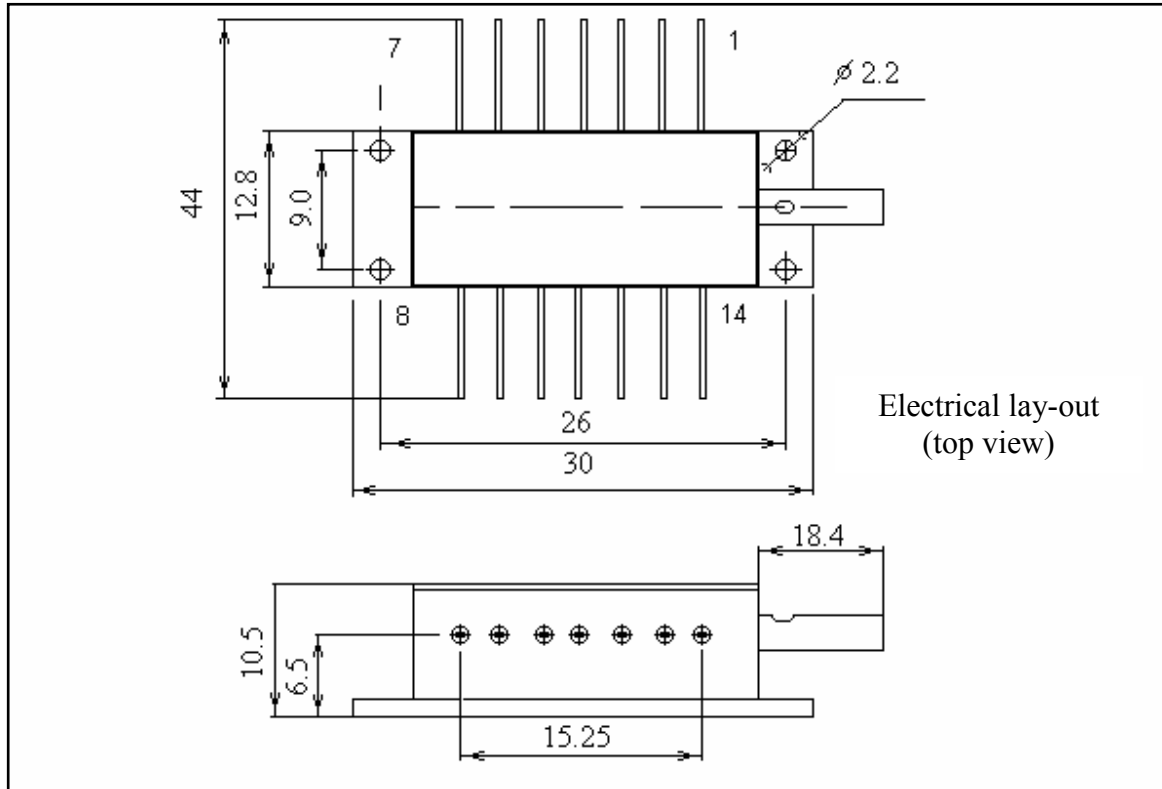
Operating parameters	Symbol	FTLD-1200-05S-BTF
Lasing wavelength	λ	1200nm \pm 5nm
Optical output power	P _{out}	5mW
Threshold current	I _{th}	<40mA
Forward current	I _f	<100mA
Forward voltage	U _f	2.4V
Fiber		SM, 9/125/900
Spectral width (FWHM) divergence	$\Delta\lambda$	2-3nm
Mode structure		SM

Additional information

- - differential efficiency - >0.5W/A;
- - wavelength drift under temperature change -<0,5nm/°C;
- - operating temperature - -10°C to +30°C ;
- - monitor diode operating voltage - 5V +/- 0,5V
- - monitor diode sensitivity - >0,2μA/mW
- - monitor photocurrent - >80μA
- - thermistor resistance - 10Kohm at 20°C
- - TEC operating current - 300mA
- - TEC operating voltage - 3.0V

PACKAGE SPECIFICATION

Butterfly:



Pin	Function	Pin	Function
1	“+” thermocooler	8	PD anode (-)
2	NC	9	NC
3	LD cathode (-)	10	NC
4	LD anode(+)	11	thermistor
5	LD cathode (-)	12	thermistor
6	NC	13	NC
7	PD cathode(+)	14	“-”thermocooler