

DATASHEET

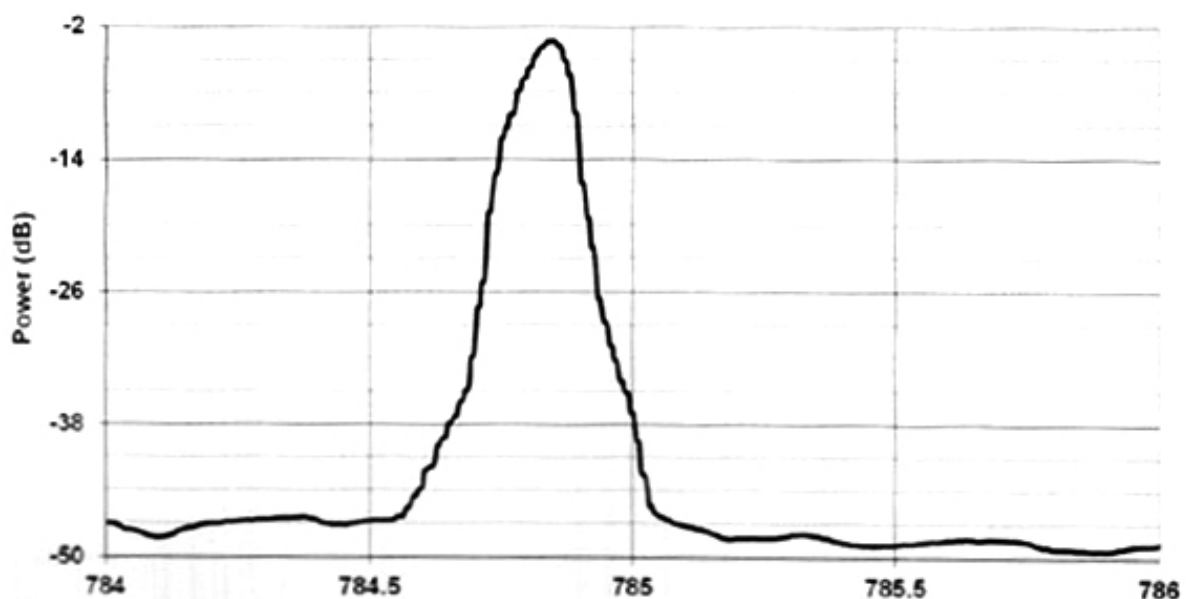
785nm Laser Source *GL-785LD-500*



GL-785LD-500, produced by Glydden Science Pte Ltd, is a high power 785nm laser diode source with an optical fiber connector. Professional heat dissipation design with a TEC cooler and constant current control of the 785nm laser diode stabilizes the 785nm laser wavelength and power. In order to get laser's FWHM of 0.1nm, center wavelength of the 785 nm laser diode employed in GL-785LD-500 is stabilized using a volume grating. GL-785LD-500 can be controlled using a computer through its GUI directly in modes of continuous, pulse and external trigger.

In the continuous mode, GL-785LD-500 outputs a stable continuous 785nm laser; in the pulse mode, it outputs 785nm laser pulses at adjustable repetition. For these two modes, the output power can be adjusted from 0 to 100% linearly through GUI.

In the external trigger mode, it can be controlled by external equipment through a three-pin connector. GL-785LD-500 can be used with an optical fiber spectrometer or integrated into other equipment easily; therefore, it is a compact and cost-effective 785nm laser source with various applications. The fiber connector of GL-785LD-500 is SMA905 or FC, customers can choose other fiber connectors.



Technical Specifications

ITEMS	SPECIFICATIONS	REMARKS
DC Input	3A@5V	
Power Consumption	15	
Output Power	0-500	mW
Threshold Current	300 to 350	mA
Center Wavelength	785	nm
FWHM	0.1 or 0.2 (Optional)	nm
Output Stability	0.05	%
Cooling Mode	Built-in TEC, with an outside heat sink	
Dimensions	150 x 97 x 40	mm
Weight	450	g
Fiber Connector	SMA905 or FC	Upon request
PC Cable Connector	USB2.0	
Expected Lifetime	>10,000	hrs
Case Temperature	-20 to 50	°C

Need to customize your product? Our team of experienced designers can help you. Kindly contact us:

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