Platform Type Multi-channel Laser Diode Driver

Product Description

The laser diode driver is mainly used for testing, screening, aging test, performance evaluation quality control and other aspects in the process of developing or producing semiconductor laser products. With stable output current, precise temperature control, comprehensive safety protection, high stability, low noise current and low maintenance cost, the multi-channel platform can reach up to 20 channels and is suitable for large-scale production scenarios.

Features

- Output high stable drive current
- Precision temperature control
- Laser diode drive current adjustable
- Laser diode operating temperature adjustable
- Safe start-up with multiple protections
- Universal platform with modular plug-in structure

Applications

- Fiber optic communication
- Semiconductor laser drive for laboratory use
- Automated inspection and data logging for scale up production

Working Environment

Operating Temperature	5~40℃
Humidity	R.H. 15~80%
Storage Temperature	-15~45℃

Ordering Information

LDDR	XX	X
Laser diode driver	M---Multi-channel N-MP---Multi-channel precision type	Number of channels

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Performance Parameter

Categories	Parameter		Indicators
Number of channels	2-20 channels selectable (LDDR-MP-X), 1-10 channels selectable (LDDR-M-X)		
LD Drive Current	Output current range	LDDR-MP-X	0-200mA
		LDDR-M-X	0-500mA
	Output current temperature coefficient	LDDR-MP-X	≤25ppm/℃
		LDDR-M-X	≤80ppm/℃
	Output current time stability (1 hour)	LDDR-MP-X	≤30ppm
		LDDR-M-X	≤100ppm
	Output current time stability (24 hours)	LDDR-MP-X	≤100ppm
		LDDR-M-X	≤400ppm
TEC Temperature Control	TEC Current		±1.5A（max)
	Temperature coefficient of temperature control		≤0.001℃/℃
	Stability of temperature control time (1 hour)		≤0.002℃
	Temperature control time stability (24 hours)		≤0.006℃
General Parameters	Laser protection		Slow start function, current limit function, over-temperature protection function, current surge suppression function, real-time abnormality detection and processing
	Supply voltage		200V～240V AC
	Output Interface		USB (RS232)
	Dimension（mm)		485x150x410(L x H x D)