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Data Sheet
August 13, 2026

ILX LIGHTWAVE

ILX Lightwave LDX3207B

Key Features - Independent precision current limit (takes precedence in all modes) - Differential analog modulation / voltage-control port - Optional Model 1205 GPIB talker/listener, optically isolated from the bus - Audible and visual OPEN CKT and LIMIT fault indicators - Safe output Off/On switch - Half-width rack-mountable X-series enclosure Technical Specifications Model: LDX-3207B (LDX-3207 family) Manufacturer: ILX Lightwave Instrument Type: Precision laser diode current source Alias: LDX3207B; LDX-3207 Output current: 0 to 200 mA, floating Compliance voltage: greater than 5 V Output temperature coefficient: less than 100 ppm perCambient Noise and ripple: less than 0.01% rms typical at 100 mA Display type: 3 1/2 digit LED Display resolution: 0.1 mA Maximum reading: 199.9 mA Display accuracy: ±0.

MODEL ILX Lightwave LDX3207B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU LDX3207B	LISTING https://aumictechlabs.com/products/ldx3207b-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave LDX-3207B is a precision laser diode current source and temperature controller engineered to deliver stable, low-noise current for laser diode operation across telecommunications, research, and development environments. This LDX-3220 Series instrument combines user-adjustable current delivery with selectable output modes and integrated laser diode protection to ensure reliable, repeatable performance. Technical Specifications Output Current Range: 0–200 mA (user adjustable) Current Limit Range: 0–200 mA (user adjustable)

Output Modes: Constant power, constant current, high bandwidth current Noise/Ripple: 2 µA rms Current Output 24h Stability: <20 ppm FS Temperature Coefficient: <50 ppm FS/°C Modulation Input: BNC connector, up to 100 kHz Modulation Input Gain: 100 mA/Volt Key Features Three selectable output modes adapt to diverse laser diode control requirements. Modulation capability via BNC input supports signal injection at gains of 100 mA/Volt, enabling AM and signal-driven applications. Integrated laser diode protection includes clamping current limits under modulated conditions, over-current suppression, and slow-start transient elimination. Low output noise at 2 µA rms ensures clean current delivery to sensitive optoelectronic components. Exceptional 24-hour current stability (<20 ppm FS) and temperature stability (<50 ppm FS/°C) maintain laser performance across operating windows. Optional GPIB/IEEE-488 interface enables remote programming of output current, on/off switching, audible tone control, and high-resolution current and voltage measurement. Typical Applications Laser diode biasing and modulation in fiber-optic communication systems Precision current sourcing for optical research and development Temperature-stabilized laser operation in laboratory and field instruments Compatibility & Integration The LDX-3207B integrates within the LDX-3200 Series family, which includes complementary current source models: LDX-3210 (50/100 mA), LDX-3220 (200/500 mA), and LDX-3232 (2 A/4 A). GPIB/IEEE-488 control allows integration into automated test environments and measurement systems requiring programmatic access to all driver functions.

Features & description

From manufacturer datasheet

Features

• Independent precision current limit (takes precedence in all modes) • Differential analog modulation / voltage-control port • Optional Model 1205 GPIB talker/listener, optically isolated from the bus • Audible and visual OPEN CKT and LIMIT fault indicators • Safe output Off/On switch • Half-width rack-mountable X-series enclosure

LDX3207B Characteristics / Specifications

PARAMETER	VALUE
Model	LDX-3207B (LDX-3207 family)
Manufacturer	ILX Lightwave
Instrument Type	Precision laser diode current source
Alias	LDX3207B; LDX-3207
Output current	0 to 200 mA, floating
Compliance voltage	greater than 5 V
Output temperature coefficient	less than 100 ppm perCambient
Noise and ripple	less than 0.01% rms typical at 100 mA
Display type	3 1/2 digit LED
Display resolution	0.1 mA
Maximum reading	199.9 mA
Display accuracy	±0.1 mA at 25 C
Display temperature coefficient	less than 100 ppm perCCurrent limit range: 0 to 200 mA
Current limit accuracy	±1.0 mA, independent of compliance voltage
Modulation input	differential
Transfer function	100 mA perVTransfer function error: less than 1%
Modulation bandwidth	DC to 100 kHz (3 dB, Iout = 50 mA p-p)
GPIB control resolution	12 bits (0.05 mA) with Model 1205
GPIB control accuracy	±0.1 mA with Model 1205
GPIB isolation	optically isolated from IEEE 488 bus
GPIB messages	REN, DCL, LLO, GTL, SDC
AC power	105–125 V or 210–250 V jumper selectable, 50–60 Hz
Size	88 mm x 212 mm x 269 mm (3.46 × 8.36 × 10.6 in)
Operating temperature	0 C to 50 C
Storage temperature	−40 C to 70 C

PARAMETER	VALUE
Warm up	1 hour to rated accuracy
Output connector	binding posts isolated from chassis ground
Modulation connector	BNC differential
Current limit range listing	0 to 200 mA (Artisan LDX-3207B)
Modulation gain listing	100 mA per V (Artisan LDX-3207B)
Bandwidth	DC to 100 kHz (3 dB, Iout = 50 mA p-p)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−40 C to 70 C
Operating temperature	0 C to 50 C
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Warm up	1 hour to rated accuracy
Output connector	binding posts isolated from chassis ground
Modulation connector	BNC differential
Current limit range listing	0 to 200 mA (Artisan LDX-3207B)
Modulation gain listing	100 mA per V (Artisan LDX-3207B) Notes Numeric table from the ILX Lightwave LDX-3207 Precision Current Source instruction manual (August 8, 1986). LDX-3207B is the laterBfaceplate of the same 200 mA instrument; Artisan listings add constant-power and high-bandwidth current modes and optional GPIB. Confirm GPIB (Model 1205) on the rear panel. Do not mix with the later LDX-3200-series (50/100/200/500 mA, 10 V) datasheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	LDX-3207B (LDX-3207 family)
Manufacturer	ILX Lightwave
Instrument Type	Precision laser diode current source
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Output temperature coefficient	less than 100 ppm perCambient
Noise and ripple	less than 0.01% rms typical at 100 mA
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Notes
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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