

LL-400GI

New Prices
JPY 280,000

LL-650GI

New Prices
JPY 190,000

LL-780GI

New Prices
JPY 190,000

LL-830GI

New Prices
JPY 190,000

LL-1300GI

New Prices
JPY 250,000

100KHz~1200MHz E/O converters LL Series

**Compact Modulated
Light Source**



The desired wavelength is optionally available by selecting LD

An example of customization

- LD : 520nm, 670nm, 900nm,
- High power version, etc.

Available bandwidth : 100KHz to 1200MHz (Response deviation $\pm 2\text{dBe}$)

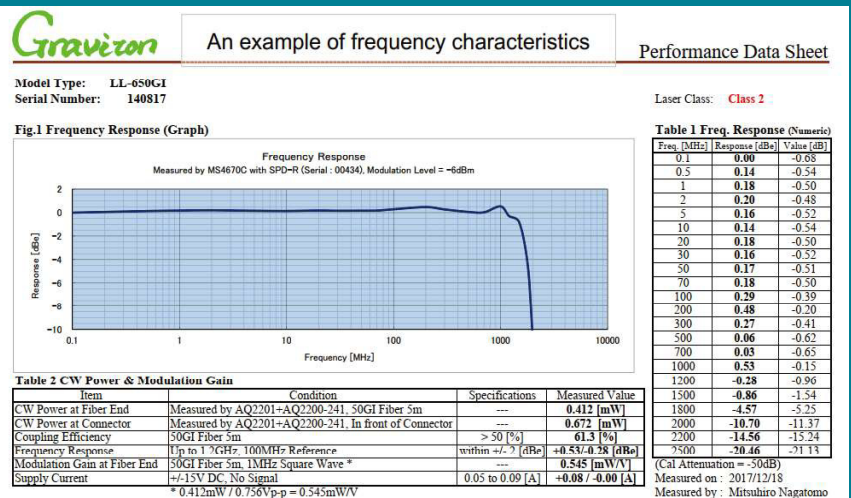
Conversion sensitivity : 0.25 mW / V or greater

Optical output without modulation : 50/125GI, 0.25mW or greater at the end of fiber

Performance Data Sheet

LL series E/O converter outputs intensity modulated optical signal depending on the electrical input signal.

By connecting one of the LL-series to the signal output terminal of a sweep generator or a function generator, it outputs modulated Laser light from the optical output connector.



Measured Data for LL-650GI

LL series E/O

405nm•658nm•780nm•830nm•1310nm
100KHz to 1200MHz E/O CONVERTER

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	LL-830GI	JPY 190,000
	LL-1300GI	JPY 250,000

■Feature....

LL series E/O converter outputs intensity modulated optical signal depending on the electrical input signal.

By connecting one of the LL series to the signal output terminal of a sweep generator or a function generator, it outputs modulated Laser light from the optical output connector.

■Basic precautions....【1】

When no input of modulated signal, the optical output is CW Laser with 0.25mW or greater in case of using a GI optical fiber of 50/125.

LL series is available as a CW Laser source when you do not use the modulated light source.

■Basic precautions....【2】

As LL series E/O converter equips a single mode LD, some application may need to consider optical feedback noise. When LL series E/O converter is used as a CW Laser source, you will be able to reduce the noise by inputting high frequency signal from the modulated signal input terminal and superimposing the signal to Laser light.

Specifications

	LL-400GI	LL-650GI	LL-780GI	LL-830GI	LL-1300GI
Laser diode	InGaN	AlGaInP	GaAlAs	GaAlAs	InAlGaAs/InP
Wavelength	405±10[nm]	658±10[nm]	780±10[nm]	830±10[nm]	1310±10[nm]

•Optical output when no modulation	0.25mW or greater at the end of the optical fiber (When using 50/125GI fiber of 1m length)
•Optical output connector	FC type receptacle (JIS F01)
•Modulation input connector	BNC plug (SMA is optionally available.)
•Input impedance	50 [Ω]
•Modulation sensitivity	0.25 [mW/V] or greater
•Mod. frequency bandwidth	100 [KHz] to 1200 [MHz]
•Frequency characteristics	±2dB in the above range (at 100MHz)
•Rated power supply voltage	15 V ± 5 % Single power supply (LL-400GI ±15V±5%, LL-1300GI -15V ± 5 %)
•Current consumption	120 [mA] Max
•Operating temperature range	+5 °C to +35 °C
•Storage temperature range	−20 °C to +50 °C
•Dimensions	60mm (L) x 41.5mm (W) x 21mm (T) (Excluding connector and protrusions)
With optical connectors	93mm (L) x 44mm (W) x 21mm (T)s
•Weight	110 [g]

•Options : SC or ST type optical output connector attached items