

OGA15-B Arrayed Semiconductor Optical Amplifier Module Box

The NEL OGA15-B arrayed Semiconductor Optical Amplifier (SOA) module is easy use box type. The OGA15-B includes electrical drivers with ECL interface and a peltier type thermo-module for the temperature control of SOAs. The simple straight gate switch and 2 arrayed 2×2 optical switch are available.

Features

- High Gain over 10dB and High-speed switching below 1 nano second
- Include electrical SOA driver with ECL interface
- Include peltier type thermo-module

Applications

- On-board Compact Arrayed Optical Amplifier
- On-board high-speed SOA gate switch for packet switching
- On-board 2×2 Matrix switch



Photo: Arrayed SOA module box (Size 220W × 195D × 35H mm)
*also available Print Wiring Board (Size 170W × 110D × 11.5H mm)

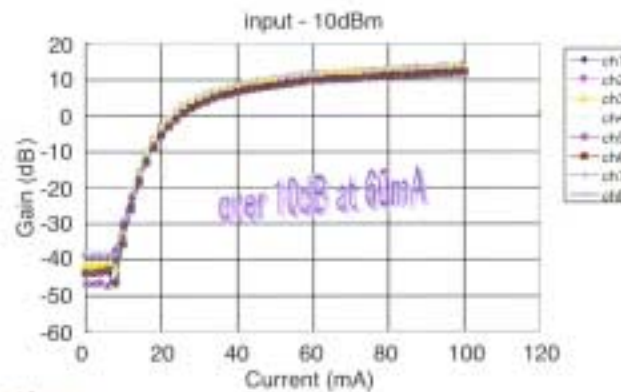
Optical Properties

Gain is over 10dB at 60mA SOA current (Typical)

	Min.	Typ.	Max.
Operating Wavelength	1520 nm	1550 nm	1570 nm
Saturation Output Power (@ 100 mA)	-4 dBm	0 dBm	
Small Signal Gain (@ 40 mA)	2.5 dB	5 dB	
Extinction Ratio (@ 40 mA)	28 dB	40 dB	
PDL (@ 40 mA)		0.5 dB	1 dB
NF (@ 40 mA)		14 dB	16 dB
Gain Ripple (@ 40 mA)		0.5 dB	1.8 dB

Switching Properties

	Min.	Typ.	Max.
Rise Time (10 - 80%)		0.5 ns	1 ns
FallTime (10 - 90%)		0.5 ns	1 ns
Turn on Delay Time (0 - 10%)		0.8 ns	1 ns



General Description

Optical Connector	SC type (SM fiber) or other type available
Electric Connector	SMA female (ECL, -2V terminal)
Temperature Control	Peltier cooler and Thermistor
Supply Power	DC -5.2V(max1.8A 8 drivers), DC7V(1.5A@8 drivers)
Dimension	220W × 195D × 35H mm (Box type) 170W × 110D × 11.5H mm (Print wiring Board type)

For further information, please fax to
NEL: 029-283-3900 (within Japan)
: +81-3-5456-4155 (from overseas)

IMPORTANT:

1. NEL reserves the right to change the design, specification, etc., of the product at any time without notice.
2. This product is subject to export regulations and restrictions set forth by the Japanese Government.

