

OGA15-M Arrayed Semiconductor Optical Amplifier Gate Module

The NEL OGA15-M arrayed Semiconductor Optical Amplifier Gate Module (SOAG) has high gain over 10dB and highly integrated SOAG chip using an unique hybrid integration technique.

Features

- High Gain Over 10dB
- Compact Size (8 channel into 100 square millimeters small package)
- High-speed Switching (below 1 nsec)
- Maximum Arrayed Number (8 SOAs), 16 SOAs Available

Applications

- On-board Compact Optical Amplifier
- Gate Switch and Matrix Switch Element
(Simple Gate Switch and 2X2 Matrix Switch is Available)



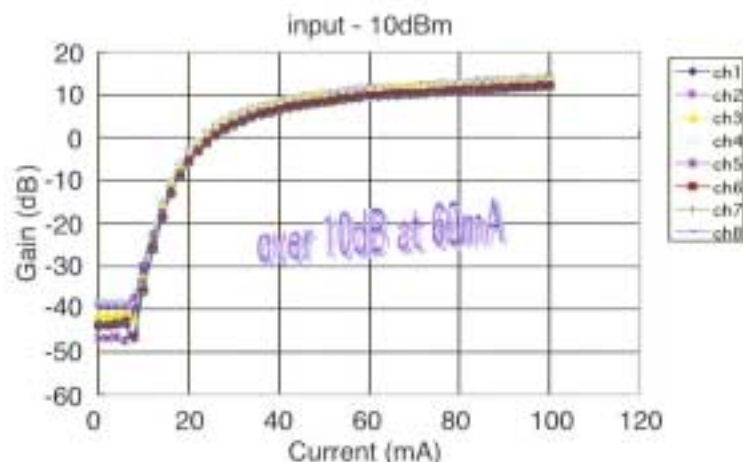
Photo: 8 channel OGA15-M (Size 7.6H X 52W X 26D)

Optical Properties

Items.	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

Items.	Min.	Typ.	Max.
RiseTime		0.5 ns	1 ns
Fall Time		0.5 ns	1 ns
Turn on Delay Time		0.8 ns	1 ns



General Description

Optical Connector	SC type (SM fiber) or other type available
Electric Connector	TC3 (Available TC3/SMA adapter)
Dimension	7.6H × 52W × 26D mm

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.

