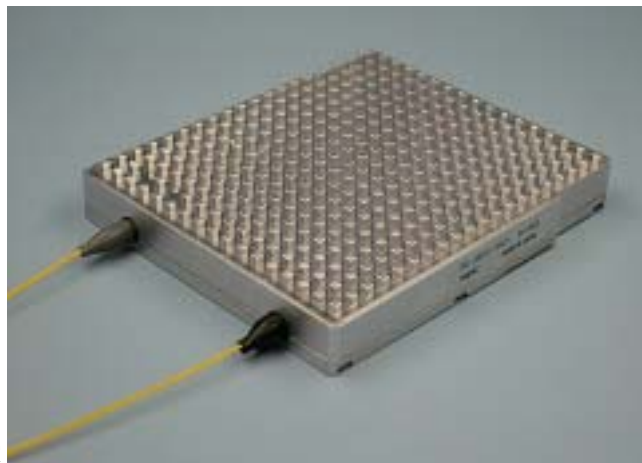


OD-J8240/8241

10-Gbps Optical Transceiver with 16-channels MUX/DEMUX for Intermediate-Reach

FEATURES

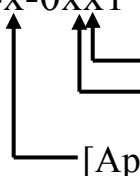
- 300-pin MSA (*Multi Source Agreement*) compliant
- Designed for SONET / SDH / ATM Systems
- OC-192 SR-2 [25km], IR-2 [40km] compliant
- Cooled EML transmitter and pin-PD receiver
- 16:1-MUX / 1:16-DEMUX Integrated
- 622.08-Mbps LVDS Input / Output interface
- Compact Size: 104 x 89 x 16 (mm)
- Power Supply Voltage: +3.3V and -5.2V
- Low Power Consumption: 6.0W (Typ.)
- Operating Case Temperature Range: -5 to 70°C



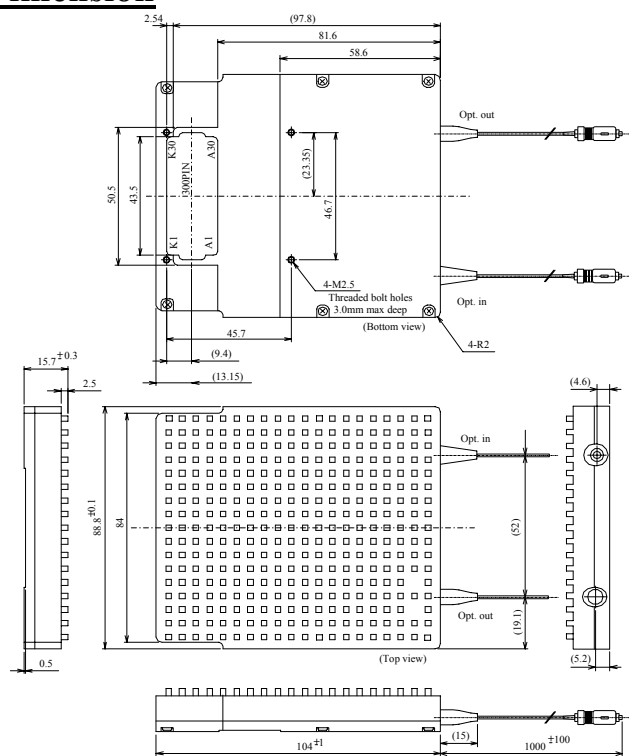
PERFORMANCE

Parameter	Performance	
Transmission Data Rate	9.95Gbps	
Pigtail Fiber	Pigtail Fiber: SMF, Pigtail Length: 1 m each	
Transmitter Output Optical Interface	Launched Power: -5 to -1 dBm (J8240) -1 to +2 dBm (J8241)	
	Wavelength: 1530 to 1565 nm	
	Extinction Ratio: 8.2 dB min.	
Receiver Input Optical Interface	Minimum Sensitivity: -14dBm max	
	Overload: -1 dBm min.	
	Optical Return Loss: -27 dB	
Data I/O Signals	622.08 Mbps x 16-channels	
Operating Case Temp.	-5 to 70 °C	
Power Supply Voltage	+3.3V and -5.2V	
Power Consumption	Tc=25°C	6.0W typ.
	Tc=70°C	8.0W typ. (11.2W max.)
Dimension	104 x 89 x 13.5/16 (mm) <i>see order form</i>	
Alarm Function	Tx: Optical output alarm, LD bias alarm Rx: Loss of signal alarm	
Monitor Function	Tx: Optical output power monitor, LD bias monitor Rx: Photo current monitor	

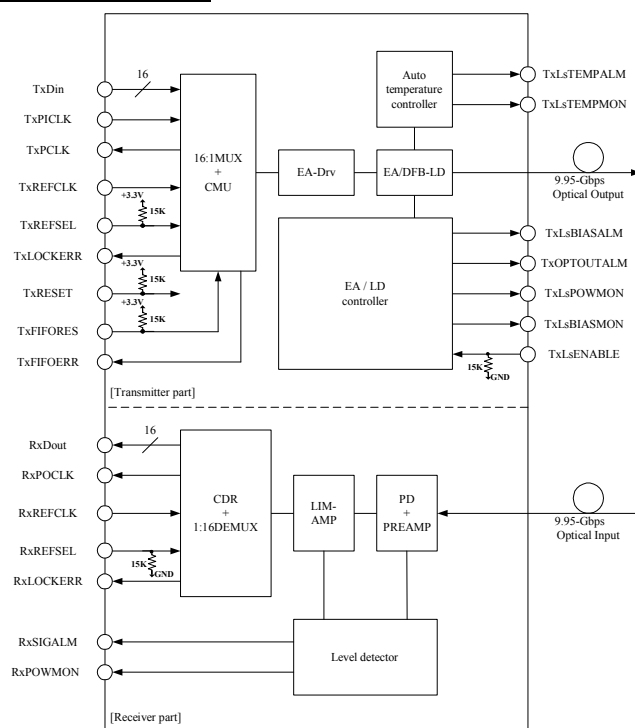
ORDER FORM: OD-J824x-0xx1


 [Package height] 0:16mm, 1:13.5mm
 [Connector] A: SC, B: FC, C: MU, D: LC
 [Application] 0: SR-2 (25km), 1: IR-2 (40km)

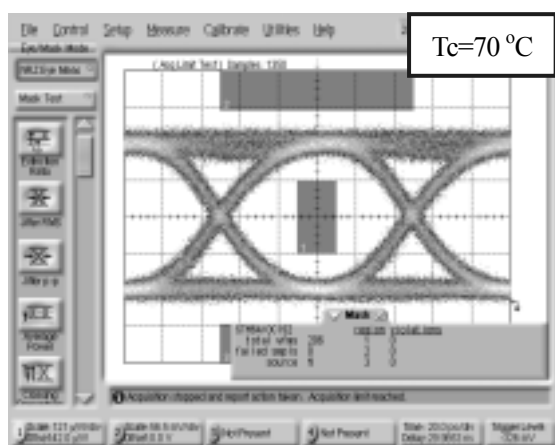
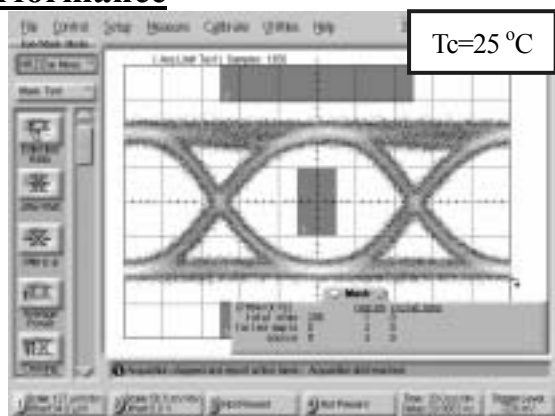
Dimension



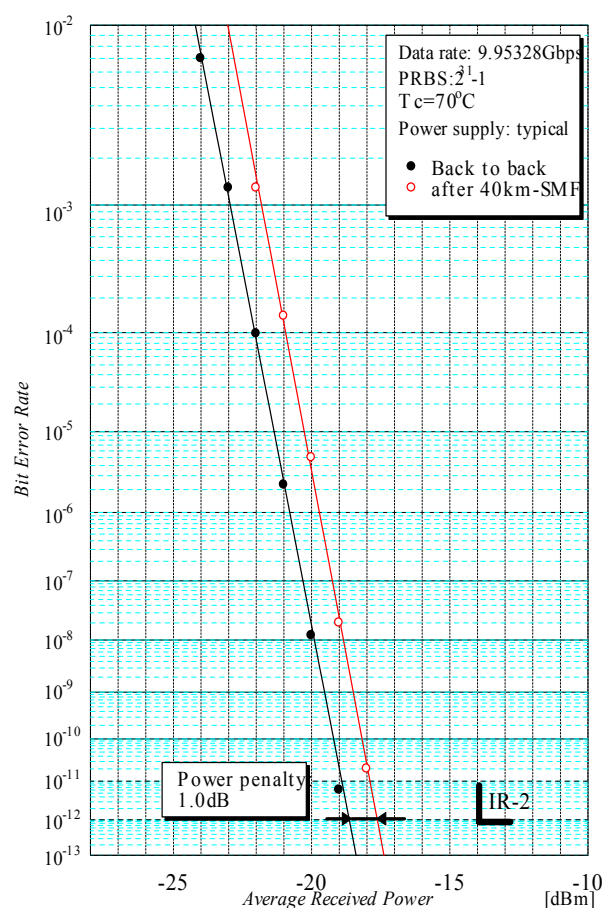
Block Diagram



Performance



Output waveform (filtered)



Bit Error Rate Characteristics
after SMF 40 km transmission

Sales Department, Fiber Optic Devices Division
Optical Network Operations Unit, NEC Networks
NEC Corporation
 1753 Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa 211-8666, Japan
 Tel: +81-44-435-5412 Fax: +81-44-435-5109

<http://networks.nec.co.jp/on/dd/en/>

EWV-19-0028-01E July 2002
Copyright © 2002 NEC Corporation

NEC Electronics (Europe) GmbH
Sales and marketing of semiconductors across Europe
Oberratherstr. 4, 40472 Dusseldorf, Germany
Tel:+49-211-6503-979 FAX:+49-211-6503-358

USA&CANADA
NEC FiberOptech, Inc.
 10050 North Wolfe Road, Suite SW1-290 Cupertino, CA 95014,USA
 Tel: +1-408-863-2000 Fax: +1-408-863-2019