

NP3000RS Series DWDM EDFA

Erbium Doped Fiber Amplifier series NP3000RS is designed for high power DWDM and single wavelength applications for C-band and L-band is highly efficient and compact.

This stand-alone unit requires +5VDC bias and has dedicated digital and analog circuitry for precise control of the EDFA along with alarms and monitors. All the operating parameters can be controlled through the RS232 serial port and comes with user-friendly software.

D38999/20WC 35SN 22-pin connector terminates the electrical connections. The unit has optional constant output power control scheme. The unit is also provided with a minimum input and output optical isolation of 30dB in the respective bands.

NP3000 series products comply with Telcordia GR1312 requirements.



| Features | Applications |
|---|---|
| <ul style="list-style-type: none"> ▪ Wide Signal Bandwidth ▪ Excellent Gain Flatness ▪ User-friendly Software ▪ Dynamic Gain & Power Control ▪ ACC , APC, AGC, and AOPC modes of operation ▪ 19 " rack mountable option | <ul style="list-style-type: none"> ▪ DWDM, Telecom, Datacom ▪ CATV ▪ FTTH ▪ Metro & Long Haul ▪ Test & Measurement ▪ LIDAR, R&D ▪ Free-Space Optical (FSO) Communication |

NP3000RS Series DWDM EDFA

Optical Performance

| Parameter | Min. | Typ. | Max. | Units |
|--------------------------------------|-------------------|----------|-------|-------|
| C-band output power (DWDM) | - | - | 24 | dBm |
| C-band output power (Single Channel) | - | - | 26 | dBm |
| L-band output power (DWDM) | - | - | 23 | dBm |
| L-band output power (Single Channel) | - | - | 25 | dBm |
| Pump wavelength | | 980/1480 | | nm |
| Operating wavelength (C-band) | 1528 | - | 1563 | nm |
| Operating wavelength (L-band) | 1568 | - | 1603 | nm |
| Polarization sensitivity | - | - | 0.3 | dB |
| Polarization mode dispersion | - | - | 0.5 | ps |
| Temperature dependent gain | - | 0.5 | 1.0 | dB |
| Temperature range of operation | -5 | 25 | 65 | °C |
| Input voltage rating | +4.75 | 5 | +5.25 | V |
| Power dissipation (for 23dBm) | - | 28 | 32 | W |
| Input/Output Connectors | Customer specific | | | |

NUPHOTON TECHNOLOGIES, INC.

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NP3000RS Series DWDM EDFA

Electrical Connector Pin Out

Connector: D38999/20WC 35SN

| Pin | Functionality |
|-----|---|
| 1 | +4.75 to +5.25 VDC |
| 2 | Ground |
| 3 | NC |
| 4 | RS232 Transmitter Pin, 19200 baud |
| 5 | RS232 Receiver Pin, 19200 baud |
| 6 | Laser Diode Enable /Disable |
| 7 | Case Temperature Alarm |
| 8 | Laser Diode Drive Current Alarm |
| 9 | Laser Diode Temperature Alarm |
| 10 | Input Power Alarm |
| 11 | Output Power Alarm |
| 12 | NC |
| 13 | NC |
| 14 | NC |
| 15 | NC |
| 16 | Buffered for driving an external LED indication (LINE LED) |
| 17 | Buffered for driving an external LED indication (LASER LED) |
| 18 | Buffered for driving an external LED indication (ALARM LED) |
| 19 | Do not connect |
| 20 | NC |
| 21 | +4.75 to +5.25 VDC |
| 22 | Ground |

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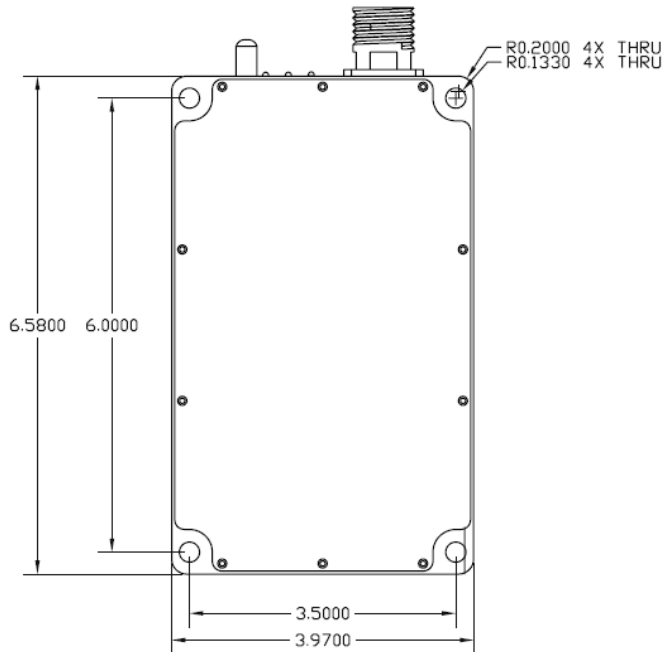
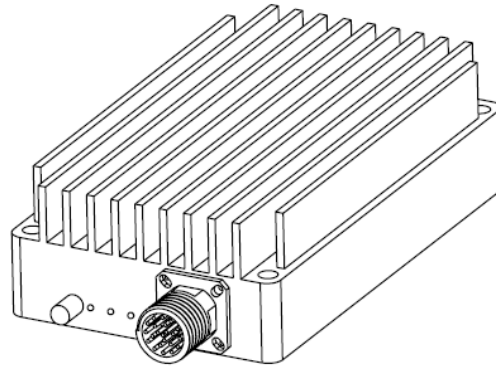
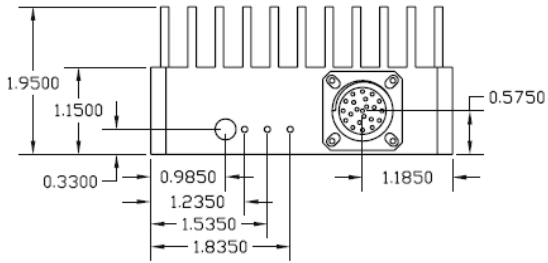
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Module Package Outline

All dimensions in inches



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Laser Safety Information

CLASS IV LASER PRODUCT

Single-mode connector

Wavelength = 1550nm, 980nm or 1480 nm

Maximum power = 500 mW



Ordering Information

NP3000 — — — — — — —

| Wavelength Range | Package Type | EDFA Type | Output Power (dBm) | Signal Gain (dB) | Connector | No. of Output Ports |
|-------------------|-------------------------------------|-------------|--------------------|----------------------------|------------|---------------------|
| C - Band | 00 Gain block; No Electronics | B Booster | E.g.: 18 18 dBm | Fixed Gain | FCU FC/UPC | 01 Single Port |
| C0 Single Channel | | L Line Amp | | 2 digits + 00 | FCA FC/APC | 04 4 Ports |
| C1 1546 - 1561 nm | RS RS232 gain block with alarms | P Pre-Amp | | Variable Gain | SCU SC/UPC | 08 8 Ports |
| C4 1528 - 1563 nm | | M Mid-Stage | | Gain Range | SCA SC/APC | 16 16 Ports |
| L - Band | PR Rackmount / Table top with RS232 | | | Eg: 2300 23 dB (fixed) | LCU LC/UPC | 32 32 Ports |
| L0 Single Channel | | | | 1030 10 - 30 dB (variable) | LCA LC/APC | |
| L1 1568 - 1603 nm | VG Variable gain | | | | 000 Other | |
| L2 1570 - 1605 nm | PM Polarization maintaining | | | | | |
| L3 1570 - 1610 nm | | | | | | |
| L4 C & L Band | CU Custom | | | | | |

Example: NP3000-C0-RS-B-18-2300-FCU-01

Contact

For pricing, lead-time and availability please contact:



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