

Product Bulletin



The JDS Uniphase OA 3000 Series is a controlled optical amplifier that features variable gain and transient suppression. The maximum optical output of 17 dBm and variable gain range of 10 dB to 25 dB make the module suitable for pre-amp, inline, or booster amplifier applications.

The module features gain-transient suppression that minimizes transmission penalties as channels are added and dropped in the network, or as input power varies. The control interface is a Transistor-Transistor Logic (TTL) level RS232 driven by a 5 V power supply.

JDS Uniphase has extensive experience with the development of fully functioning EDFAs, and can design standard, high-performance optical amplifier products that meet your time-to-market requirements.

17 dBm Controlled Erbium Doped Fiber Amplifier (EDFA) with Variable Gain and Transient Suppression **OA 3000 Amplifier Series**

Key Features

- Variable gain
- Transient suppression
- Wide input power dynamic range
- Constant gain, power, and current modes
- Alarms

Applications

- Pre-amplifier, inline, or booster amplification
- C band
- Dense wavelength division multiplexing (DWDM) amplification for long haul and metro networks
- Up to 40 channels

Specifications

Parameter	Specification
Signal wavelength	1530.33 to 1563.05 nm
Total input signal power	-29 to 7 dBm
Total output signal power	17 dBm maximum
Signal gain	10 to 25 dB
Absolute gain variation	1.25 dB maximum
Dynamic gain variation	0.4 to 2.5 dB
Gain flatness (all operating conditions)	2.0 dB maximum
Noise figure	5.5 dB (at high gain)
Gain transient suppression time	2 ms maximum
Gain transient overshoot/undershoot	2 dB maximum
Dimensions (W x H x D)	201.4 x 124.5 x 20.32 mm
Operating temperature	0 to 65 °C
Storage temperature	-40 to 70 °C

Ordering Information

For more information on this or other products and their availability, please contact your local JDS Uniphase account manager or JDS Uniphase directly at 800-871-8537 in North America and 1-800-8735-5378 worldwide or via e-mail at jdsu.sales@jdsu.com.

Sample: OAC-17F3000CA

OAC - 17 F3000C

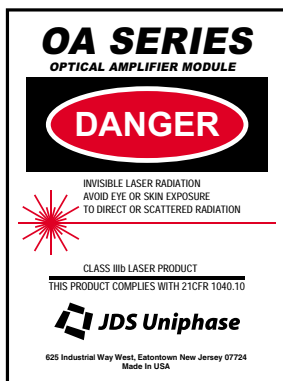


Code	Connector Type ¹
3	FC/APC
5	SC/APC
9	FC/UPC
A	SC/UPC (default)
C	MU

1. More connector options are available upon request.

User Safety

The invisible laser light emitted from this module is harmful to the human eye. Wear proper laser safety eyewear during operation.



ESD Protection

The laser diodes and photodiodes contained in this module are very reliable under normal operating conditions. However, they can be easily destroyed by inadvertent electrical or static discharges (ESD). Take extreme precaution to prevent ESD. Use wrist straps, grounded work surfaces, and anti-static techniques when operating this module. When not in use, the fiber amplifier must be kept in a static-free environment with the shorting foam covering the connector.



North America toll-free: 800-871-8537
Worldwide toll-free: 1-800-8735-5378
www.jdsu.com

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