

U-Series

Erbium-Doped Fiber Amplifier Module

U-3000 DWDM EDFA

The U-3000 DWDM EDFA is catered for long-haul broadband application. This OEM version will fit in a variety of booster, in-line or post amplifying applications as requested by the customer. This model is available in both C-band or L-band fiber optic communication window. It caters for 100GHz and 50GHz DWDM systems and can be controlled via NMS. It is an excellent high performance solution with great reliability. The Telcordia™ GR-1312CORE standards-compatible U-3000 comes with built-in sophisticated control electronics and monitoring outputs that could be easily integrated to telecom interface cards. Additional gain flattening feature is offered as optional.

Our technology is a patented optical design with minimum loss and optimum amplification performance. The software and control electronics has been designed for extremely precise monitoring and controlling of devices. It is designed to work in various network platforms.

Contact us for higher power and customized requirements.

Features

- Supports 50GHz and 100GHz DWDM signals
- Amplification for C-band or L-band
- Wide operating range
- Transparent to wavelength add/drop
- Multi-channel amplification
- Low noise figure
- Electronically controlled
- Configurable constant output power
- Optional automatic gain control (AGC) features
- Telecom card mountable

Applications

- Broadband amplification for long-haul
- Booster, In-line amplification
- Passive optical networks (PON)

Technical Specifications U-3000 DWDM EDFA

Optical Characteristics

Parameter	Typical Value	Unit
Operating Region	C or L-band	-
Wavelength Range	1540 to 1560 1570 to 1605	nm
Output Power Level	17 to 20	dBm
Input Power Level	-15 to 4	dBm
Noise Figure	<5.0	dB
PDG	<0.5	dB
Gain Flatness	<0.3	dB
Return Loss (input & output)	>40	dB

Electrical Characteristics

Parameter	Typical Value	Unit
Operating Voltage	5	VDC
Power Consumption	8.0	W
Pump drive current	200	mA/pump
Communication Interface	RS232	-

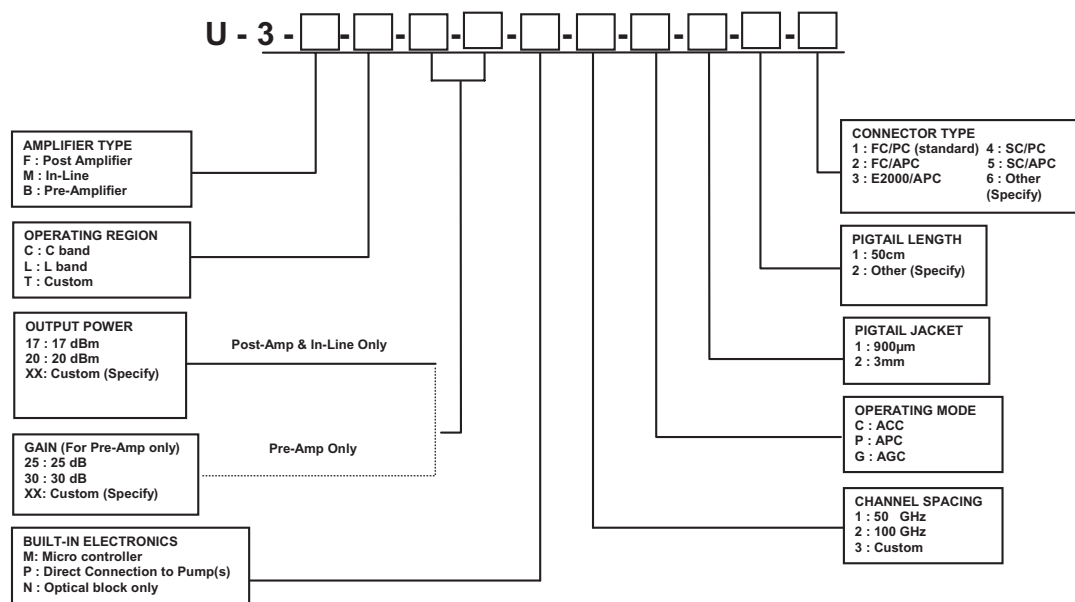
Mechanical & Environmental Characteristics

Parameter	Typical Value	Unit
Dimension (W x L x H)*	120 x 140 x 17	mm
Fiber Termination Type	FC,SC,ST,E-2000	-
Polishing Type	PC or APC	-
Operating Temperature	0 to 70	°C
Storage Temperature	-40 to 65	°C
Humidity (non condensing)	0 to 85	%
Weight	0.8	kg

*Additional heat sink will be attached accordingly.

Ordering Information

U-3000 DWDM EDFA Product Code



Notes:

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