



Multi-core C-band Optical Amplifier

MC-EDFA Series



Description

The MC-EDFA series is ConsteleX solution for R&D applications involving space division multiplexing transmission systems. The MC-EDFA includes state-of-the-art multi-core active and passive components for amplifying signals that are independently propagating into 7 cores within a single optical fiber.

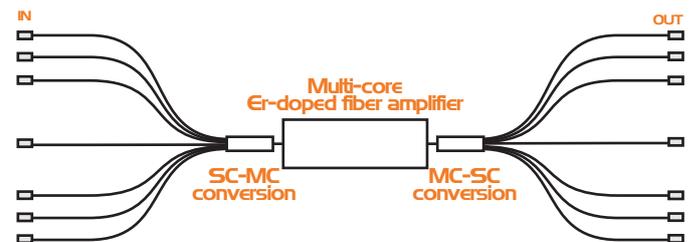
The amplifier is offered with standard single-core interfaces for straight-forward plug-and-play into space division multiplexed transmission testbeds, avoiding interfacing problems associated with core pitch and core number at the client-side testbed and sub-systems.

The product includes on/off key switch and current control for adjusting the emission status and pump current of the amplifiers. The front panel allows for monitoring the emission status, pump current and temperature.

MC-EDFA			
Specification	Value	Units	Notes
Number of cores	7	-	
Interface	7xSMF	-	SC/APC or LC/APC
Input wavelength range	1530-1565	nm	
Saturated Output Power per core	>10	dBm	Pin = -6 dBm
Input Power	-20 to +3	dBm	
Small Signal Gain	> 20	dB	Pin = -20 dBm
Noise Figure (NF)	< 5	dB	
Environmental Conditions			
Operating Temperature	15 - 40	°C	
Storage Temperature	-20 to +60	°C	
Humidity	0 - 95 %		
Electrical & Mechanical Specifications			
Operating Voltage	85 - 264	VAC	@ 47-63 Hz
Power Consumption	< 40	W	
Dimensions	47 x 27 x 10	cm	

All information is accurate and subject to change without notice

Schematic



Applications

- Photonics R&D
- Multi-core technologies
- Terabit networks
- Transmission Testbeds



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