



Optical Supervisory Channel (OSC) EDFA

Key Features

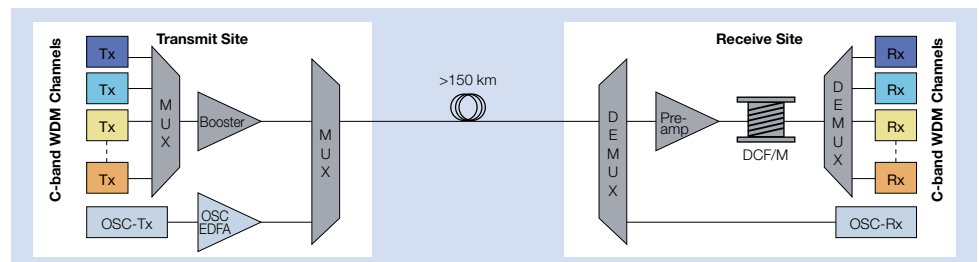
- ▶ Up to 12 dBm output power in the 1500-1520 nm band
- ▶ Allows up to 16 dB reach extension for the OSC
- ▶ Low noise figure
- ▶ No signal distortion
- ▶ Compact size
- ▶ Low power consumption
- ▶ Optional integration within Finisar's UltraSpan product family
- ▶ AGC/APC control

Applications

- ▶ Long repeaterless links (e.g. island hopping, desert ranges and oil rigs)
- ▶ Storage area networks (SANs), remote locations, disaster recovery
- ▶ Security-sensitive applications
- ▶ Traversing challenging spans within multi-spans links

Overview

Finisar's Optical Supervisory Channel (OSC) EDFA is designed to be used as a booster amplifier for a 1510 nm OSC. This unique EDFA, provided in a compact 70x90x15 mm MSA form factor, provides up to 12 dBm output power in the 1503-1517 nm band, thus significantly extending the link reach of the OSC. Furthermore, the use of standard EDFA technology ensures that there are no signal distortions at high output power, in contrast to semiconductor optical amplifier (SOA) technology. The amplifier can optionally be integrated into a 1RU rack-mountable unit as part of Finisar's UltraSpan product portfolio for long link amplification.



Example - using the OSC EDFA to extend OSC reach in long repeaterless links (can be used in conjunction with Finisar UltraSpan products for extending WDM transmission reach)

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Specifications

Parameter	Specifications			Remarks
	Min.	Max.	Unit	
Wavelength Range	1504.5	1517.5	nm	
Input Power Range	-2	+7	dBm	
Saturated Output Power		13	dBm	
Noise Figure		10	dB	
Operating Case Temperature	0	+70	°C	
Storage Temperature Range	-40	+85	°C	
Power Consumption		9.5	W	
Power Supply	+3.13	+3.46	V	
Dimensions (WxHxD)	70x90x15		mm	MSA compatible
Laser Safety	Class 1M*			

* Class 1M products are not hazardous under normal circumstances, but may pose an eye hazard when the laser output is viewed with certain optical instruments (for example eye loupes, magnifiers and microscopes) within a distance of 100 mm

Specifications above refer to Finisar part number FOA-M1500CB-ESC1C-AA011. Custom specifications can be considered upon request.



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