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Refurbished CISCO 15454-OPT-EDFA-24 Datasheet

CISCO > OPTICAL-NETWORKING

Cisco ONS 15454 Series Multiservice Transport Platforms

Enhanced C-Band 96-Channel EDFA Amplifier Cards with Applications

Component	Deployment Application
Cisco True Variable Gain Booster Amplifier with maximum 17-dB gain (15454-OPT-EDFA-17)	You can use this flexible amplifier as a preamplifier or as a booster amplifier, providing a total output power of 20 dBm and maximum gain of 17 dB. It integrates an optical service channel splitter or combiner to allow the optical supervisory channel (OSC) to be sent to and received from the optical service channel module (OSCM) card or the OSC signal from the OSC pluggable associated with the Transport Node Controller (TNC) card. Deployment locations include any site where high per-channel power is required to enter the fiber span.
Cisco True Variable Gain Booster Amplifier with maximum 24-dB gain (15454-OPT-EDFA-24)	You can use this flexible amplifier as a preamplifier or as a booster amplifier, providing a total output power of 20 dBm and maximum gain of 24 dB. It integrates an optical service channel splitter or combiner to allow the OSC to be sent to and received from the OSCM card or the OSC signal from the OSC pluggable associated with the Transport Node Controller (TNC) card. Deployment locations include any site where high per-channel power is required to hit the fiber span.

Card Specifications

General Specifications	
Weight (not including clam shell)	2 kg (4.41 lb)
Optical connectors	LC
Operating Environment	
Temperature	32 to 113°F (0 to 45°C)
Storage Environment	
Temperature	40 to 158°F (–40 to 70°C)
Transport Environment	
Temperature	40 to 158°F (–40 to 70°C)
Humidity	5 to 95% noncondensing

Common Optical Amplifier Specifications

Gain ripple at target gain tilt = 0 dB	Single amplifier: 0.5 to 1.2 dB Six amplifiers in cascade: Up to 4 dB
Gain tilt error at target gain tilt = 0 dB	0.5 dB
Gain set resolution (constant gain mode)	0.1 dB
Output power set resolution (constant power mode)	0.1 dB
Gain and power regulation settling time (from 10 to 90% of final set point)	5 ms to 1 sec
Short-term stability: Gain, output power, and gain tilt	0.1, ±0.1, and ±0.1 dB
Maximum output power in amplifier-	15 dBm

disable mode	
Input reflectance	40 dB
Output reflectance	40 dB
Backward ASE power	25 dB
Pump-power leakage	20 dB
Polarization-dependant gain (maximum)	0.2 dB
Polarization-mode dispersion (maximum)	0.5 ps
Polarization-dependant loss (maximum)	0.2 dB
OSC filter operating bandwidth	1500 to 1520 nm
Channels filter operating bandwidth	1528 to 1570 nm
Total number of channels supported	96 channels; 50-GHz–spaced

The next steps...

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