

DWDM-XFP-C

Cisco

IntegraOptics' Tunable DWDM XFP module is a high performance tunable pluggable for use in the C-band window, covering 1528nm to 1566nm. This module supports data rates from 9.95Gb/s to 11.3 Gb/s and can support link distances up to 80km. Channel tuning is supported on the ITU-T 50GHz grid across the full C-band with +2.5GHz stability. Wavelength and frequency tuning modes are supported in accordance with SFF-8477. Integra Tunable DWDM XFP transceivers are coded to be 100% OEM compatible and provide for reliable, versatile, cost effective 10G service deployments capable of meeting both current and future networking requirements.

Features

- Operating data rate 9.95- 11.35Gb/s
- Supports 80km link distance
- Full C-band, 96 channel, 50GHz spacing with support for 100-GHz based equipment
- SMF Duplex LC Connector Interface
- Digital Diagnostic Monitoring
- MSA INF-8077i, SFF-8477 Compliant



Applications

- 10GBase-ER/EW, 10GBase-ZR
- Carrier & Metro Ethernet Networks
- 10G Fibre Channel
- OTN & Other Optical Links

Product Specifications

Part Number	Wavelength (nm)	Distance (km)	Power Budget (dB)	Interface
DWDM-XFP-C	Tunable	80km	>24.5 dB	SMF/LC

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Detailed Specifications

Parameter	Minimum	Typical	Maximum	Unit
Storage Temperature (Ts)	-40	-	85	°C
Operating Case Temperature CTemp (Tc)	-5	-	70	°C
Input Operating Wavelength (λ)	1525	-	1575	nm
Power Supply Voltage (Vcc2)	1.71	1.8	1.89	V
Power Supply Voltage (Vcc3)	3.15	3.3	3.45	V
Power Supply Voltage (Vcc5)	4.75	5.0	5.25	V
Power Supply Voltage (Vcc3)	-	3.3	-	V
Power Supply Current (Icc2)	-	330	400	mA
Power Supply Current (Icc3)	-	600	800	mA
Power Supply Current (Icc5)	-	250	400	mA
Total Power Consumption	-	-	3.5	W

Transmitter

Parameter	Minimum	Typical	Maximum	Unit
Frequency Range	191.35	-	196.10	THz
Frequency Accuracy	-2.5	-	+2.5	GHz
Optical Transmit Power	-	+0.5	-	dBm
Optical Power Stability	-1.0	-	+1.0	dBm
Spectral Width (-20dB) ($\Delta\lambda$)	-	0.3	0.5	nm
Extinction Ratio (ER)	9.5	-	-	dB
Tuning Speed	-	-	50	ms
Module Initialization Time	-	-	10	s
Data Rate	9.95	-	11.35	Gbps

Receiver

Parameter	Minimum	Typical	Maximum	Unit
Center Wavelength (λ_C)	1525	-	1575	nm
Receiver Sensitivity	-	-26	-24	dBm
Receiver Overload (P _{MAX})	0.5	-	-	dBm

Warranty Information

The IntegraOptics' XFP Tunable 10G is covered by the standard IntegraOptics warranty. Please contact an IntegraOptics sales representative for additional details.