## **Platinum OEM Series**

Other Optical Links

SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

#### Datasheet PSFP-MR2CXXK120 **SFP Optical Transceiver Product Features** Platinum OEM Series • Exclusive Japanese OSAs for Ultimate Reliability SONET OC-48 / STM-16 33dB SFP 120 km LX SFP for SMF @ 2.67Gbps Multirate 1270nm - 1610nm DFB+APD Laser 120 km SFP 0°C - 70°C Temperature - Extended/Industrial Available 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724) • Optical Gigabit Ethernet Hot-swappable for SFP LC ports Applications • Fibre Channel 2x Extended 2 Years Warranty • SONET/SDH Tested and Certified in Brand Specific Networks and Target • SONET OC-48 **Applications** • Fibre Channel 1x

- Assembled Using Highest Quality Raw Components
- SFP MSA / IEEE Std 802.3 & ROHS

### Description

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Platinum OEM Series PSFP-MR2CXXK120 is a Cisco Compatible CWDM SONET OC-48 / STM-16 SFP transceiver designed for long distance optical communications up to 120 km with signaling rates up to 2.67Gbps.

OptoSpan Platinum OEM Series 2.67Gbps Multirate CWDM optical transceivers have undergone rigorous qualification and certification testing to provide End-to-End Compatibility using switching equipment from CISCO, BROCADE, JUNIPER, ALCATEL, HP (select models), NORTEL, EMC, QLOGIC and other OEMs.

All OptoSpan Platinum OEM Series long-reach SFP s are ROHS compliant, allow for real-time diagnostic monitoring as per SFF-8472 and designed to meet Multi-Source Agreement (MSA) standards for CWDM transceivers with LC interface.

PSFP-MR2CXXK120	Distance: 120 km				Fiber: 1270nm - 1610nm	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	4	7	-29	-9		
<b>Optical Calculation Results</b>			-29	-26	33	33

### **Optical Budget Calculation for 120 km Platinum OEM SFP Optical Transceiver**

## **Platinum OEM Series**

#### SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 General Specifications

Parameter	Unit	Min.	Тур.	Мах
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	٥C	-40		+85
Case Operating Temperature	٥C	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		2.67	

### **Electrical Characteristics**

Parameter	Unit	Min.	Тур.	Max	
	Transmitter				
Differential Input Voltage Swing	mVpp	400		1600	
Input Differential Impedance	ohm	85	100	115	
Transmit Disable Voltage - High	V	2		Vcc+0.3	
Transmit Disable Voltage - Low	V	0		0.8	
Transmit Fault Voltage - High	V	2		Vcc+0.3	
Transmit Fault Voltage - Low	V	0		0.8	
Receiver					
Differential Output Voltage Swing	mVpp	400		1200	
Differential Output Impedance	ohms	85	100	115	
LOS Output Voltage - High	V	2		Vcc+0.3	
LOS Output Voltage - Low	V	0		0.8	



### SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16

## **Optical Characteristics**

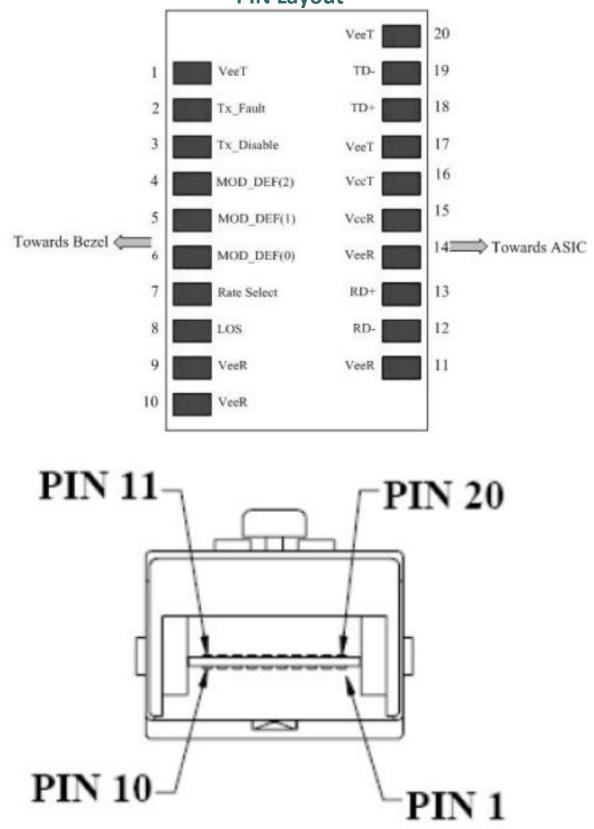
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	4		7
Optical Extinction Ratio	dB	8.2		
Optical Wavelength	nm	λc-5.5	λc	λc+7.5
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 2.5Gbps	dBm	-29		-9
LOS DE-Assert	dBm			-31
LOS Assert	dBm	-43		

## **Laser Safety**

This is a class 1 Laser Product according to IEC 60825-1:1993:+A1:1997+A2:2001. This product complies with 21 CFR 1040.10 and 1040 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.

## **Platinum OEM Series**

#### SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Layout

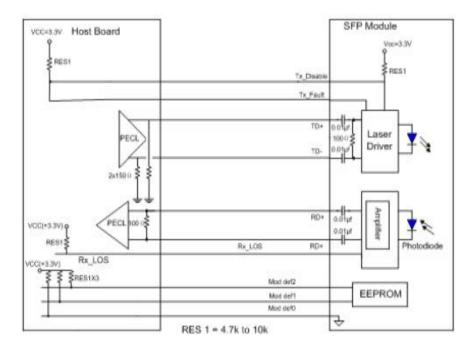


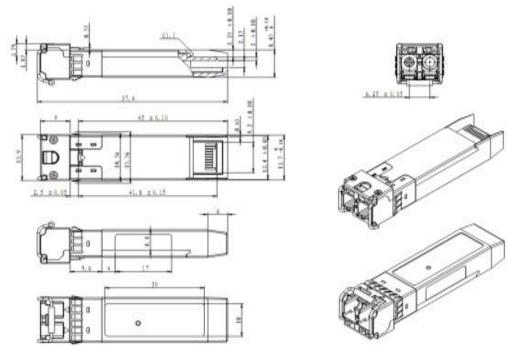
#### SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	Not Connect
8	Loss of Signal
9	Receiver Ground
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	Received Data Out
14	Receiver Ground
15	Receiver Power
16	Transmitter Power
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
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## **Platinum OEM Series**

### SFP CWDM 120 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 Mechanical Layouts





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