## **Platinum OEM Series**

SFP CWDM 80 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-MR2CXXK080 Platinum OEM Series • Optical Gigabit Ethernet Applications • Fibre Channel 2x • SONET/SDH • SONET OC-48 • Fibre Channel 1x

Other Optical Links

### **SFP Optical Transceiver Product Features**

- Exclusive Japanese OSAs for Ultimate Reliability
- SONET OC-48 / STM-16 29dB SFP
- 80 km LX SFP for SMF @ 2.67Gbps Multirate
- 1270nm 1610nm DFB+APD Laser 80 km SFP
- 0°C 70°C Temperature Extended/Industrial Available
- 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724)
- Hot-swappable for SFP LC ports •
- Extended 2 Years Warranty
- Tested and Certified in Brand Specific Networks and Target **Applications**
- Assembled Using Highest Quality Raw Components
- SFP MSA / IEEE Std 802.3 & ROHS

## Description

Platinum OEM Series PSFP-MR2CXXK080 is a Cisco Compatible CWDM SONET OC-48 / STM-16 SFP transceiver designed for long distance optical communications up to 80 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-MR2CXXK080	Distance: 80 km				Fiber: 1270nm - 1610nm	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	5	-29	-9		
Optical Calculation Results			-28.9	-23.9	28.9	29

### **Optical Budget Calculation for 80 km Platinum OEM SFP Optical Transceiver**

#### SFP CWDM 80 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 General Specifications

General Speemeations				
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 80 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16

### **Optical Characteristics**

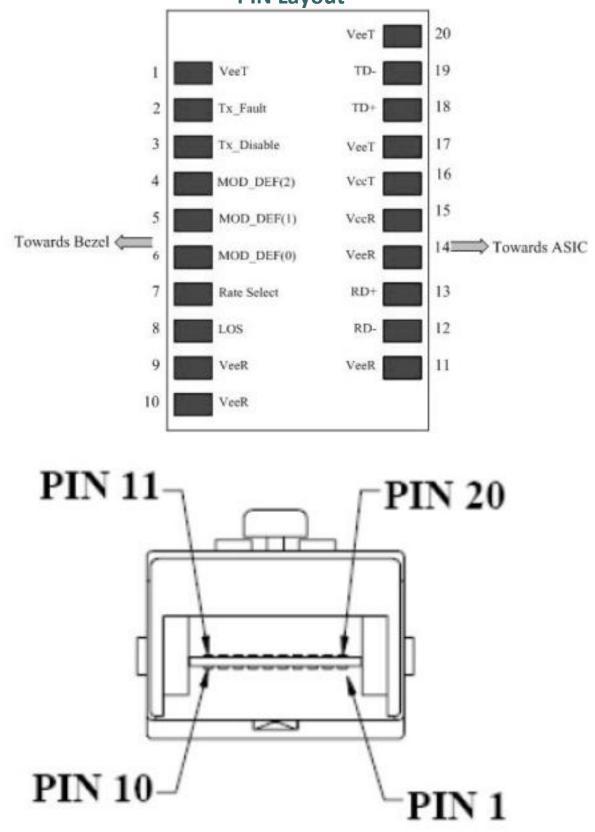
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	8.2		
Optical Wavelength	nm	λc-5.5	λς	λc+7.5
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 2.67Gbps	dBm	-29		-9
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 80 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Layout

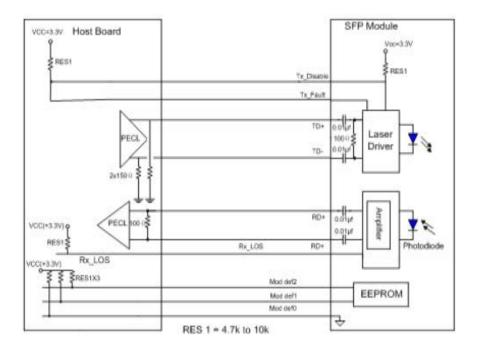


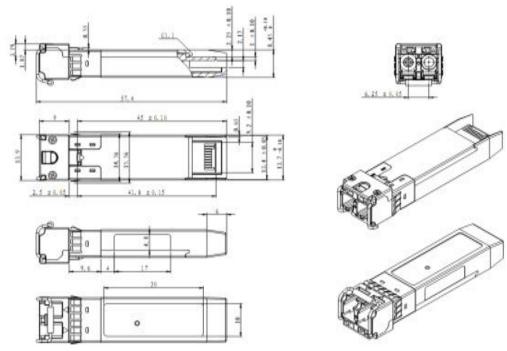
#### SFP CWDM 80 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Functions

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 Connected
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 Supply
16	Transmitter Power Supply
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
22	
23	
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30	

## **Platinum OEM Series**

#### SFP CWDM 80 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 Mechanical Layouts





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