

SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

Datasheet

SFP Optical Transceiver Product Features

- Exclusive Japanese OSAs for Ultimate Reliability
- SONET OC-3 / STM-1 45dB SFP
- 200 km DWDM SFP for SMF @ .155Gbps
- 100GHz (C-Band) DFB+APD Laser 200 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

PSFP-155DXXK200



Applications

- Optical Fast Ethernet
- SONET/SDH
- SONET OC-3
- Other Optical Links

Description

Platinum OEM Series PSFP-155DXXK200 is a Cisco Compatible DWDM SONET OC-3 / STM-1 SFP transceiver designed for long distance optical communications up to 200 km with signaling rates up to .155Gbps.

OptoSpan Platinum OEM Series .155Gbps DWDM 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 DWDM transceivers with LC interface.

Optical Budget Calculation for 200 km Platinum OEM SFP Optical Transceiver

PSFP-155DXXK200	Distance: 200 km				Fiber: 100GHz (C-Band)	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	2	7	-43	-10		
Optical Calculation Results			-42.8	-37.8	44.8	45



SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 General Specifications

Parameter	Unit	Min.	Тур.	Max
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	°C	-40		+85
Case Operating Temperature	°C	0		+75
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps			.155

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
	Transmitt	er		
Differential Input Voltage Swing	m∨pp	400		2000
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2		Vcc
Transmit Disable Voltage - Low	V	0		0.8
Transmit Fault Voltage - High	V	2		Vcc
Transmit Fault Voltage - Low	V	0		0.8
Receiver				
Differential Output Voltage Swing	m∨pp	370		2000
Differential Output Impedance	ohms	85	100	115
LOS Output Voltage - High	V	2		Vcc
LOS Output Voltage - Low	V	0		0.8



SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1

Optical Characteristics

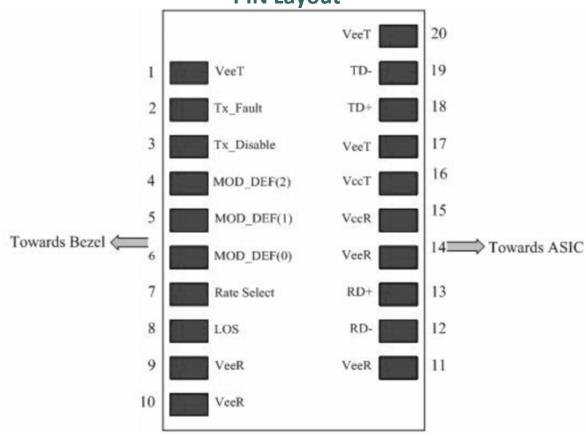
Parameter	Unit	Min.	Тур.	Max
	Transmitter			
Output Optical Power	dBm	2		7
Optical Extinction Ratio	dB	8.2		
Optical Wavelength	nm	1528		1564
Spectral Width	nm			0.3
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1528		1664
Receiver Sensitivity @ .155Gbps	dBm	-43		-10
LOS DE-Assert	dBm			-44
LOS Assert	dBm	-50		

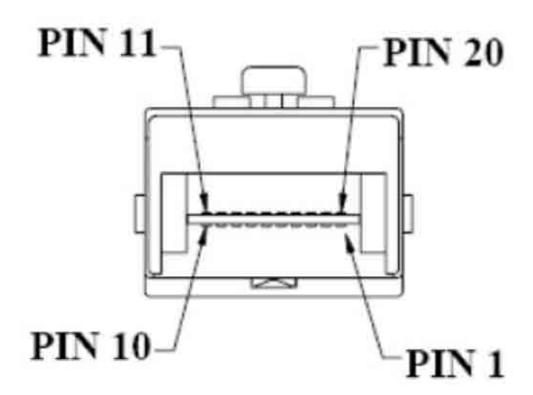
Laser Safety

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.



SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 PIN Layout





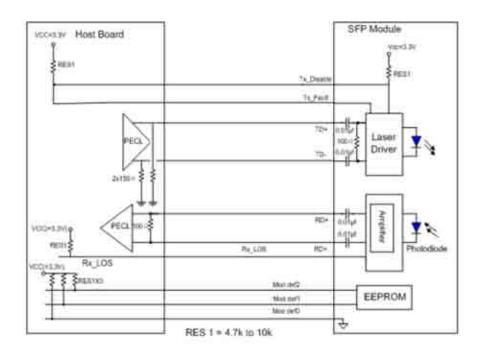


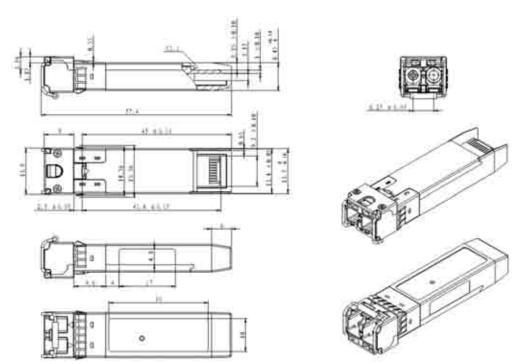
SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 PIN Functions

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	nv. 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	
24	
25	
26	
27	
28	
29	
30	



SFP DWDM 200 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 Mechanical Layouts





OptoSpan reserves the right to make changes or to discontinue any optical product or service without any notice. Applications and features described herein are for illustrative purposes only. OptoSpan makes no representation of warranty that such applications or features will be suitable for any specific use or compatibility without further testing or modifications. Not responsible for typographical errors.