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Platinum OEM Series

SFP 120 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

Datasheet PSFP-155T55K120 **SFP Optical Transceiver Product Features** • Exclusive Japanese OSAs for Ultimate Reliability SONET OC-3 / STM-1 34dB SFP • 120 km Duplex SFP for SMF @ .155Gbps 1550nm DFB Laser 120 km SFP 0°C - 70°C Temperature - Extended/Industrial Available 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724) Optical Fast Ethernet Hot-swappable for SFP LC ports • Applications • SONET/SDH Extended 2 Years Warranty • SONET OC-3 Tested and Certified in Brand Specific Networks and Target • Other Optical Links **Applications** Assembled Using Highest Quality Raw Components SFP MSA / IEEE Std 802.3 & ROHS Description

Platinum OEM Series PSFP-155T55K120 is a Cisco Compatible Duplex SONET OC-3 / STM-1 SFP transceiver designed for long distance optical communications up to 120 km with signaling rates up to .155Gbps.

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

PSFP-155T55K120	Distance: 120 km				Fiber: 1550nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	5	-34	-10		
Optical Calculation Results			-33	-28	33	34

Optical Budget Calculation for 120 km Platinum OEM SFP Optical Transceiver

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SFP 120 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 General Specifications

General Speemeatons				
Parameter	Unit	Min.	Тур.	Мах
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	°C	-40		+85
Case Operating Temperature	°C	0		+70
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	
	Transmitter				
Differential Input Voltage Swing	mVpp	400		2000	
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		0.5	
Receiver					
Differential Output Voltage Swing	mVpp	400		2000	
Differential Output Impedance	ohms	85	100	115	
LOS Output Voltage - High	V	2		Vcc+0.3	
LOS Output Voltage - Low	V	0		0.8	



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Optical Characteristics

Parameter	Unit	Min.	Тур.	Max
	Transmitt	er		
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	10		
Optical Wavelength	nm	1480	1550	1580
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
	Receive	r		
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ .155G	dBm	-34		-10
LOS DE-Assert	dBm			-35
LOS Assert	dBm	-45		

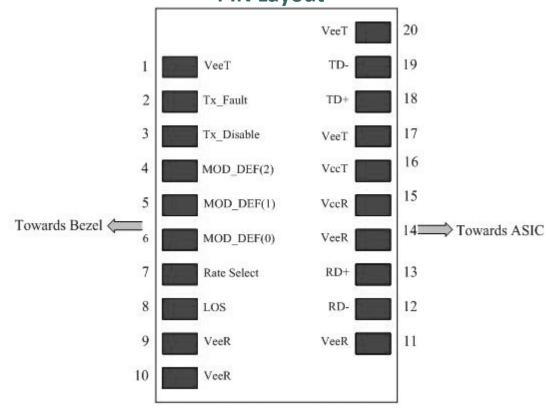
Laser Safety

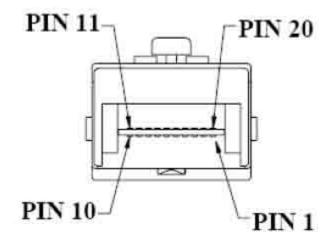
This is a class 1 Laser Product according to IEC 60825-1:1993:+A1:1997+A2:2001. This product complies with 21 CFR 1040.10 and 1040 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.

Platinum OEM Series

SFP 120 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 PIN Layout

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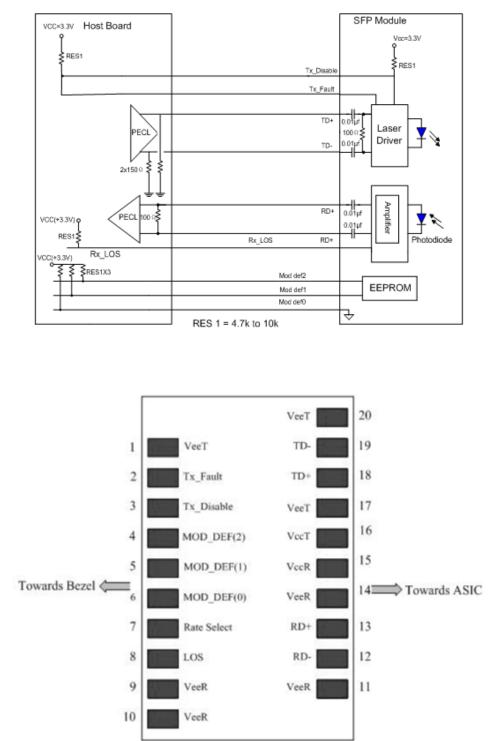
SFP 120 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 PIN Functions

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	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	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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SFP 120 km transceiver | Cisco Compatible 155Mb SONET OC-3 / STM-1 Mechanical Layouts



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