Platinum OEM Series

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

Datasheet PSFP-155B57K120 **SFP Optical Transceiver Product Features** • Exclusive Japanese OSAs for Ultimate Reliability SONET OC-3 / STM-1 34dB SFP • 120 km BX SFP for SMF @ .155Gbps 1570Tx-1510Rx DFB+LD 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 **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-155B57K120 is a Cisco Compatible Single Fiber BiDirectional SONET OC-3 / STM-1 SFP

Platinum OEM Series PSFP-155B57K120 is a Cisco Compatible Single Fiber BiDirectional 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 Single Fiber BiDirectional (BiDi) 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 Single Fiber BiDirectional (BiDi) transceivers with LC interface.

PSFP-155B57K120	Distance: 120 km				Fiber: 1570Tx-1510Rx	
	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		•	-28.6	-22.6	26.6	34

Optical Budget Calculation for 120 km Platinum OEM SFP Optical Transceiver

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

Unit	Min.	Тур.	Мах	
Absolute Maximum Ratings				
V	-0.5		3.6	
°C	-40		+85	
°C	0		70	
Recommended Operating Condition				
V	3.15	3.3	3.45	
mA			300	
Gbps		.155		
	Unit solute Maximu V •C •C mended Opera V mA	solute Maximum Ratings∨-0.5●C-40●C0mended Operating Condition∨3.15mA	Unit Min. Typ. solute Maximum Ratings ∨ -0.5 •C -40 •C 0 mended Operating Condition ∨ 3.15 mA	

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
	Transmitt	er		
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	370		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

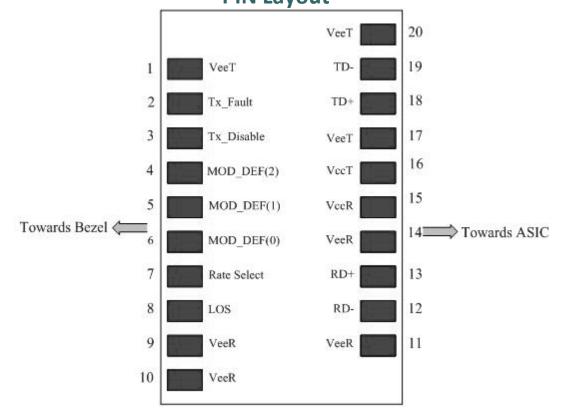
Parameter	Unit	Min.	Тур.	Мах
Transmitter				
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	9		
Optical Wavelength	nm	λс-6.5	λс	λc+7
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	λ-20	λ	λ+20
Receiver Sensitivity @ OC-3	dBm	-34		-10
Receiver Sensitivity @ 100M	dBm	-35		-10
LOS DE-Assert	dBm			-36
LOS Assert	dBm	-45		

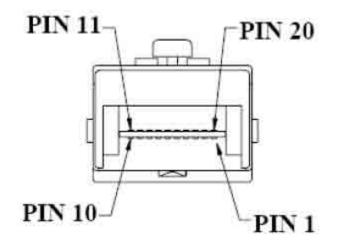
Laser Safety

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.

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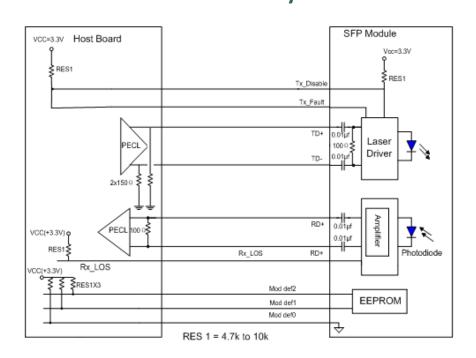


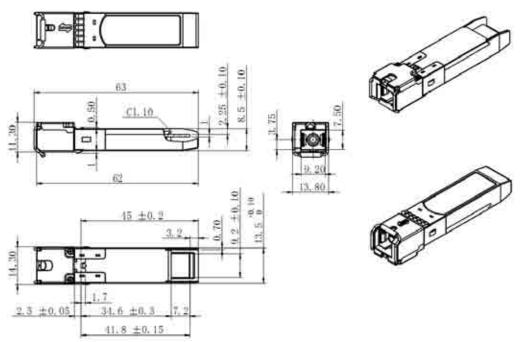
SFP Single Fiber 120 km transceiver | Cisco Compatible 155Mb BX SONET OC-3 / STM-1 PIN Functions

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	
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27	
28	
29	
30	



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





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