## **Platinum OEM Series**

SFP 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

#### Datasheet PSFP-622T55K080 **SFP Optical Transceiver Product Features** • Exclusive Japanese OSAs for Ultimate Reliability SONET OC-12 / SDH STM 25dB SFP 80 km Duplex SFP for SMF @ .622Gbps 1550nm DFB Laser 80 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-12 **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-622T55K080 is a Cisco Compatible Duplex SONET OC-12 / SDH STM SFP transceiver designed for long distance optical communications up to 80 km with signaling rates up to .622Gbps.

OptoSpan Platinum OEM Series .622Gbps 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-622T55K080	Distance: 80 km				Fiber: 1550nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-3	2	-28	-8		
<b>Optical Calculation Results</b>			-26.4	-21.4	23.4	25

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



## **Platinum OEM Series**

#### SFP 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM General Specifications

General Speemeatons				
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		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		100~622	

### **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



### SFP 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM

### **Optical Characteristics**

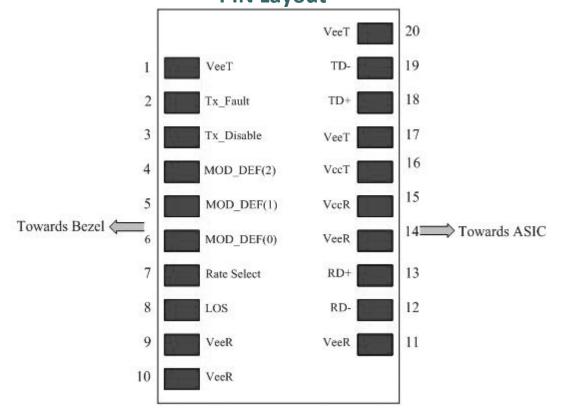
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	-3		2
Optical Extinction Ratio	dB	10		
Optical Wavelength	nm	1520	1550	1580
Spectral Width	nm			1
Side Mode Suppression Ratio	dB			
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ OC-12	dBm	-28		-8
Receiver Sensitivity @ OC-3	dBm	-34		-8
Receiver Sensitivity @ 100M	dBm	-35		-8
LOS DE-Assert	dBm			-29
LOS Assert	dBm	-42		

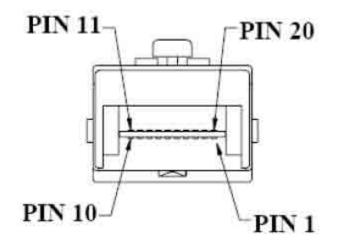
### **Laser Safety**

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 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM



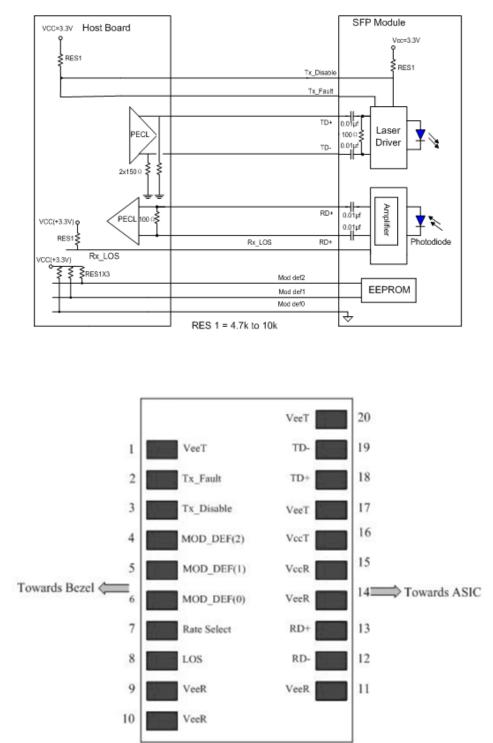


## SFP 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable - Module disables on high or open
4	Module Definition 2 - Data line for Serial ID
5	Module Definition 1 - Clock line for Serial ID
6	Module Definition 0 - Grounded within the module.
7	Function not available
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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30	



#### SFP 80 km transceiver | Cisco Compatible 622Mb SONET OC-12 / SDH STM Mechanical Layouts



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