

Product Information

SFP-S53-20-W Series

100M SFP Modules



Features

- ❖ Single + 3.3 V power Supply
- ❖ Small Form Factor Pluggable MSA Compliant
- ❖ Differential Inputs and Output
- ❖ For Single Mode Applications
- ❖ Compliant with SONET / SDH Standard
- ❖ Class 1 Laser International Safety Standard IEC 825 Compliant
- ❖ Bi-directional Linking Distance Up to 20 km.
- ❖ Industrial Operation Temp.: -40°C to +85 °C
- ❖ RoHS Compliant



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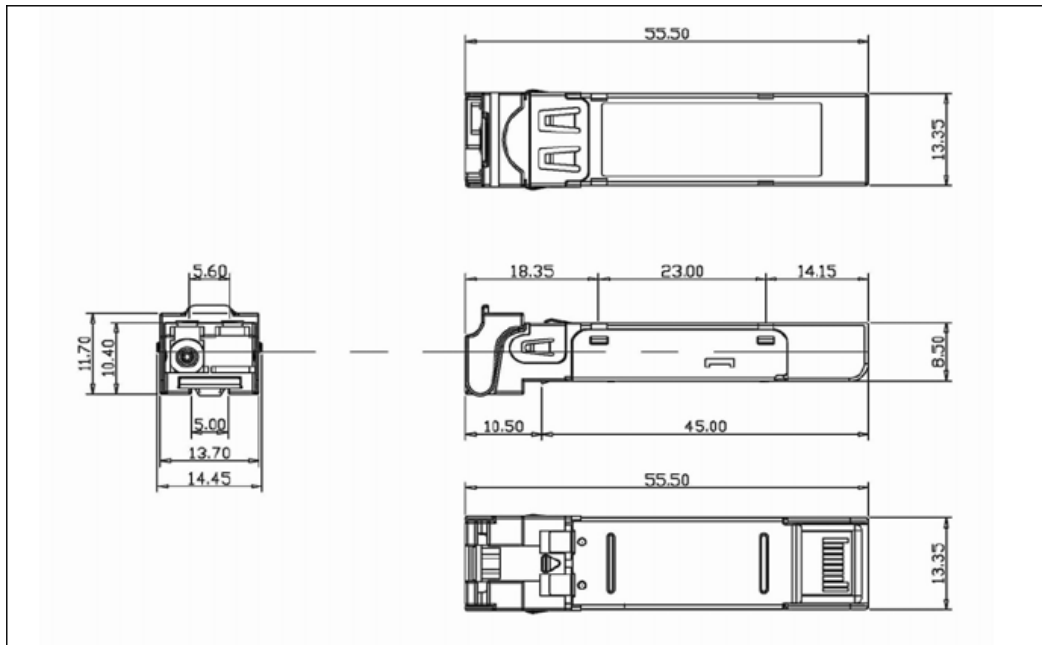
Introduction

The transceiver from Henrich is a small form factor pluggable module for serial optical data Communications applications specifying SONET OC-3 / SDH STM-1 / IEEE 802.3u. This module is designed for single mode fiber with cost effective and high performance by using 1550nm transmitter and 1310nm receiver. It is with the SFP 20-pin connector to allow hot plug capability.

Specifications

Absolute Maximum Ratings	
Supply Voltage	0~4V
Storage Temperature	-40 to +85°C
Operating Temperature	-40 to +85°C
General Specifications	
Data Rate	50 to 200Mbps, Typ: 155Mbps
Supported Link Length on 9/125µm SMF	20Km
Transmitter Electrical Characteristics	
Supply Voltage	3.15 to 3.45V, type:3.3V
Data Differential Input Voltage	400 to 2000mV
Disable Input Voltage	-1.81 to -1.48V
Enable Input Voltage	-1.16 to -0.88V
Transmitter Optical Characteristics	
Output Optical Power on 9µm SMF :	-15 to -5dBm
Center Wavelength :	1510 to 1570nm, Type:1550
Spectral Width (RMS)	Type: 2nm
Optical Rise Time (20%-80%)	Max: 2ns
Optical Fall Time (20%-80%)	Max: 2ns
Extinction Ratio	Min: 8.2dB
Receiver Electrical Characteristics	
Supply Voltage	3.15 to 3.45V, type:3.3V
Data Differential Output Voltage	500 to 1000mV
Data Output Rise Time (20%-80%)	Max:2ns
Data Output Fall Time (20%-80%)	Max: 2ns
Receiver Optical Characteristics	
Maximum Receiver Power	Min: -3dBm Type:
Receiver Sensitivity	-32dBm
Operating Wavelength	1250 to 1380nm
Signal Detect-Asserted	Max:- 32dBm avg.
Signal Detect-Deasserted	Min: -46dBm avg.
Signal Detect-Hysteresis	Min:0.5dB

Dimension drawings



Units:mm

Ordering Information

SFP-S53-20-W	Single Mode Fiber Port with LC Connector, 20KM, TX1550nm, RX1310nm, Industrial Wide Temperature:-40°C to +85°C.
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