



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Product Information

## SFP-S53-20-W Series

100M SFP Modules



### Features

- ❖ Single + 3.3 V power Supply
- ❖ Small Form Factor Pluggable MSA Compliant.
- ❖ PECL Differential Inputs and Output
- ❖ TTL Signal Detect Indicator.
- ❖ For Single Mode Applications
- ❖ Compliant with SONET / SDH Standard
- ❖ LC Duplex Connector
- ❖ 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



Main Office

Tel: 860-487-9869

Fax: 860-487-9478

[www.henrich-inc.com](http://www.henrich-inc.com)

## Introduction

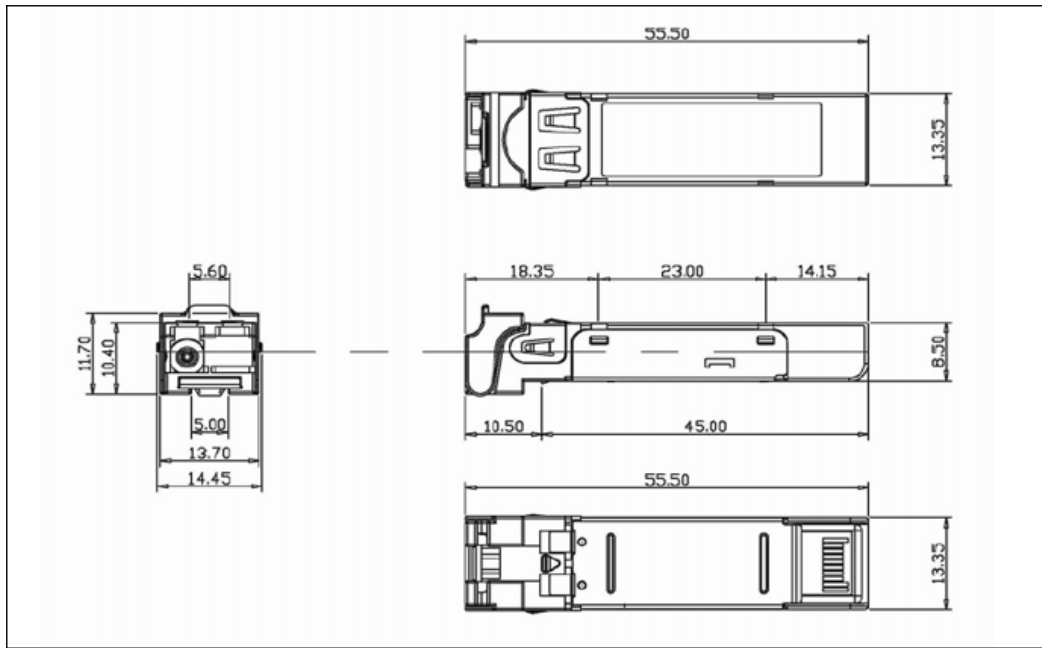
The transceiver from Henrich is a small form factor pluggable module for serial optical data communications applications, specifying SONET OC-3 / SDH STM-1 / IEEE 802.3u. This module is designed for single mode fiber with cost-effective and high performance by using 1310 nm transmitter and 1550 nm receiver.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

## Specifications

Absolute Maximum Ratings	
Supply Voltage	0~5V
Storage Temperature	-40 to +85°C
Operating Temperature	0 to +70°C
Lead Soldering Limits	MAX: 260/10°C /sec
General Specifications	
Data Rate	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	300 to 1600mV
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 :	-14 to -8dBm
Center Wavelength :	1530 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: 10dB

Receiver Electrical Characteristics	
Supply Voltage	3.15 to 3.45V, type:3.3V
Data Differential Output Voltage	300 to 1000mV
Data Output Rise Time (20%-80%)	Max: 0.35ns
Data Output Fall Time (20%-80%)	Max: 0.35ns
Receiver Optical Characteristics	
Maximum Receiver Power	Min: -3dBm
Receiver Sensitivity	Type: -34dBm
Operating Wavelength	1250 to 1350nm
Signal Detect-Asserted	Max:- 34dBm avg.
Signal Detect-Deasserted	Min: -46dBm avg.
Signal Detect-Hysteresis	Min:0.5dB

Dimension drawings



Units:mm

## Ordering Information

SFP-S35-20-W	Single Mode Fiber Port with LC Connector, 20KM, RX1550nm, Industrial Wide Temperature:-40°C to +75°C.
--------------	---