

# Product Information

## SFP-W Series

### 100M SFP Modules



## Features

- ❖ Single + 3.3V power supply
- ❖ Differential Inputs and Outputs
- ❖ Small Form Factor Pluggable MSA Compliant
- ❖ Industrial Operation Temp.: -40°C to +85 °C



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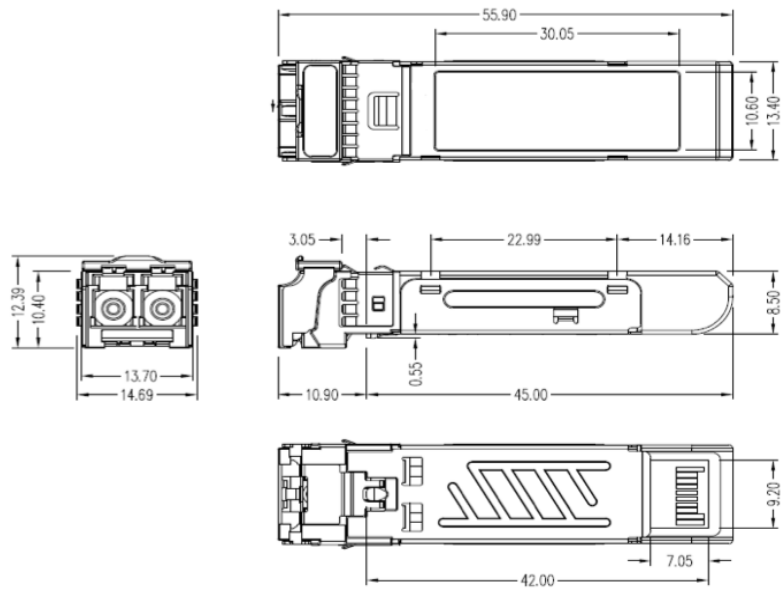
## Introduction

The transceiver from Henrich is small form factor pluggable module with standard duplex connector for fiber communications. This module is designed for multi-mode-fiber (MMF) and operates at a nominal wavelength of 1310 nm with cost effective and high performance. 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, type: 155Mbps
Supported Link Length on 62.5/125µm MMF	2Km
Supply Current	Max: 300mA
Power Dissipation	1000mW
Transmitter Electrical Characteristics	
Supply Voltage	3.15 to 3.45V, Typ: 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 62.5µm MMF :	-20 to -8dBm
Center Wavelength	1260 to 1360nm, Typ: 1310nm
Spectral Width(RMS)	Max:2nm
Optical Rise Time (20%-80%)	Max: 2ns
Optical Fall Time (20%-80%)	Max: 2ns
Extinction Ratio	Min: 8.2dB
P <sub>Out</sub> @TX Disable Asserted	Max: -45dBm
Receiver Electrical Characteristics	
Supply Voltage	3.15 to 3.45V, typ: 3.3V
Data Differential Output Voltage	500 to 1200mV
Receiver LOS/SD Output Voltage-High	Min:2.0V
Receiver LOS/SD Output Voltage-Low	0 to 0.8V
Data Output Rise Time (20%-80%)	Max:2ns
Data Output Fall Time (20%-80%)	Max:2ns
Receiver Optical Characteristics	
Maximum Receiver Power	Min: -3dBm Max:
Receiver Sensitivity	Max:-32dBm
Operating Wavelength	1100 to 1600nm
Optical Return Loss	Max:12dB
Signal Detect-Asserted	Max: -28dBm avg.
Signal Detect-Deasserted	Min: -46dBm avg.
Signal Detect-Hysteresis	Min: 0.5dB

## Dimension drawings



Units:mm

## Ordering Information

### SFP-W Series

SFP-W	Multi-Mode Fiber Port with LC Connector, TX 1310nm, 2KM, 155Mbps, Industrial Wide Temperature:-40°C to +85°C.
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