

21700127	DATA SHEET
Valid from: 05.06.2025	MUN-SFP-155-MM-LC-13-2-DDI-LLP

Description

- Multi-Mode 1310nm
- Operating Data Rate up to 155Mbps
- Duplex SFP Transceiver
- 2 km with 50/125 μ m multi mode fiber @ 500 MHz*km
- 2 km with 62.5/125 μ m multi mode fiber @ 500 MHz*km
- Hot pluggable SFP footprint duplex LC connector interface
- Class 1 FDA and IEC60825-1 Laser Safety Compliant
- Operating Temperature: -40°C - 85°C
- Compliant with MSA SFP Specification
- Digital Diagnostic compliant with SFF-8472
- Safety Certification: TUV/UL/FDA



Picture just for illustration

General characteristics

The MUN-SFP-155-MM-LC-13-2-DDI-LLP transceiver is small form factor pluggable module for duplex optical data communications such as Fast Ethernet and OC-3/STM-1 SDH/SONET. It is with the SFP 20-pin connector to allow hot plug capability. This module is designed for multi-mode fiber and operates at a nominal wavelength of 1310 nm.

The transmitter section uses a multiple quantum well 1310nm laser and is a class 1 laser compliant according to International Safety Standard IEC 60825.

The MUN-SFP-155-MM-LC-13-2-DDI-LLP is designed to be compliant with SFF-8472 SFP Multi-source Agreement (MSA).

Variation

Article	Description
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Electrical properties

Absolute maximum ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	Ts	-40	+85	°C
Supply Voltage	Vcc	-0,5	3.6	V
Operating Relative Humidity		-	95	%

Recommended Operating conditions

Parameter	Symbol	Min.	Typical	Max.	Unit
Operating temperature	Tc	-40		+85	°C
Power supply voltage	Vcc	3.15	3.3	3.45	V
Power supply current	Icc			300	mA
Data rate	OC-3/STM-1		155		Mbps
	100M		100		

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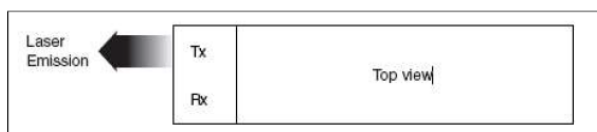
Optical and electrical characteristics

Physical and electrical characteristics					
Parameter	Symbol	Min.	Typical	Max.	Unit
Length of 9µm Core Diameter SMF	L		2		km
Data rate			100/155		Mbps
Transmitter					
Centre wavelength	λ_c	1260	1310	1360	nm
Average output power *(1)	Pout	-19		-14	dBm
Output optical eye *(2)	Telcordia GR-253-CORE and IUT-T G.957 Compliant *(3)				
Receiver					
Centre wavelength	λ_c	1260		1600	nm
Receiver sensitivity *(4)	Pmin			-31	dBm
Receiver overload	Pmax	-12			dBm

Notes:

- *(1) Output power is measured by coupling into a 62.5/125 µm multi-mode fiber
- *(2) Filtered, measured with a PRBS 2²³-1 test pattern @155Mbps
- *(3) Eye pattern mask
- *(4) Minimum average optical power is measured by coupling into a 62.5/125 mm multi-mode fiber; the BER is less than 1E-10 or lower, measured with a 2²³-1 NRZ PRBS and ER=9 dB

Laser emission



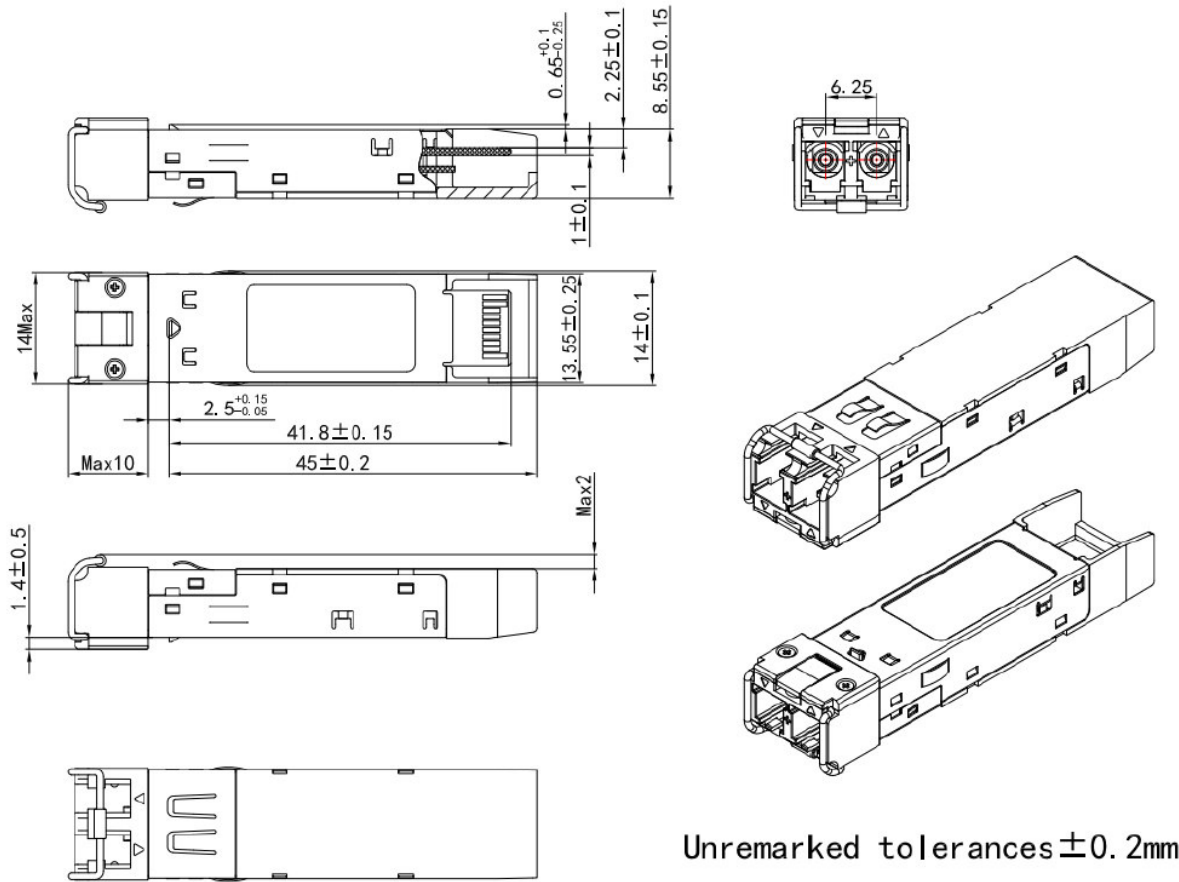
Standards / Approvals

Multiple source agreement
 FDA laser class
 Diagnostic monitoring
 Laser safety compliance
 Safety certification

MSA SFP specification
 Class 1
 SFF-8472
 IEC60825-1
 TUV/UL/FDA

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Technical drawing



Application range

Gigabit Ethernet Switches and Routers, Fiber Channel Switch Infrastructure, other optical links,
Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.
Commodity product, not a Lapp product.