

Fiber Optic Transceiver Series, SFP, DWDM, EZX  
120KM, Gigabit Ethernet DDM, MSA Compliant



## FXC-SFPDxxEZX1G-MSA

### Features

- Operating Data Rates up to 1.25 Gbps
- Distance Range 120KM
- Pluggable SFP Duplex LC Connectors
- Standard and Industrial Operating Temperatures
- Compliant with MSA Specification

### Applications

- Telecom (Service Providers)
- Datacom
- Enterprise Networks
- Government
- Fiber to the Home/Business

### Description

The L-com FXC-SFPDxxEZX1G-MSA series are SFP transceivers, supporting 1G Ethernet data rates. The SFP DWDM series transceivers have DWDM transmitters, with operating wavelengths between 1530.33 nm to 1561.42 nm. The L-com FXC-SFPDxxEZX1G-MSA supports 120KM distance and is compliant with MSA system level specifications. The L-com FXC-SFPDxxEZX1G-MSA series feature digital diagnostics for performance monitoring of the transceivers. The L-com FXC-SFPDxxEZX1G-MSA series are one of thousands of fiber optic connectivity products available from L-com's in-stock inventory and ready to ship. Contact our knowledgeable technical support and sales staff with your questions on fiber optic connectivity or other L-com products.

### Configuration

Data Rate	1 Gbps
Form Factor	SFP
Connector	LC
Connector Mode	Duplex
Mode	Single Mode
Distance	120 km
Mfg Platform Compatibility	MSA

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Power Supply Voltage	3.15	3.3	3.45	V
Power Supply Current			450	mA
Module Total Power			1.56	W

### Optical Specifications

Description	Minimum	Typical	Maximum	Units
TX Center Wavelength*	1530		1562	nm
TX Data Rate		1		Gbps
TX Average Output Power	2		5	dBm
TX Extinction Ratio	8.2			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[FXC-SFPDxxEZX1G-MSA](#)

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### FXC-SFPDxxEZX1G-MSA

RX Center Wavelength	1530	1562	nm
RX Receiver Sensitivity	-31		dBm
RX Receiver Overload		-9	dBm

\*See table below

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Wavelength Channel No.

Channel	Frequency	Wavelength		Channel	Frequency	Wavelength
xx	THz	nm		xx	THz	nm
20	192.0	1561.41		40	194.0	1545.32
21	192.1	1560.61		41	194.1	1544.53
22	192.2	1559.79		42	194.2	1543.73
23	192.3	1558.98		43	194.3	1542.94
24	192.4	1558.17		44	194.4	1542.14
25	192.5	1557.36		45	194.5	1541.35
26	192.6	1556.55		46	194.6	1540.56
27	192.7	1555.75		47	194.7	1539.77
28	192.8	1554.94		48	194.8	1538.98
29	192.9	1554.13		49	194.9	1538.19
30	193.0	1553.33		50	195.0	1537.4
31	193.1	1552.52		51	195.1	1536.61
32	193.2	1551.72		52	195.2	1535.82
33	193.3	1550.92		53	195.3	1535.04
34	193.4	1550.12		54	195.4	1534.25
35	193.5	1549.32		55	195.5	1533.47
36	193.6	1548.51		56	195.6	1532.68
37	193.7	1547.72		57	195.7	1531.9
38	193.8	1546.92		58	195.8	1531.12
39	193.9	1546.12		59	195.9	1530.33

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### Environmental Specifications

**Temperature**

Operating Range

-5 to +70 deg C

Storage Range

-40 to +85 deg C

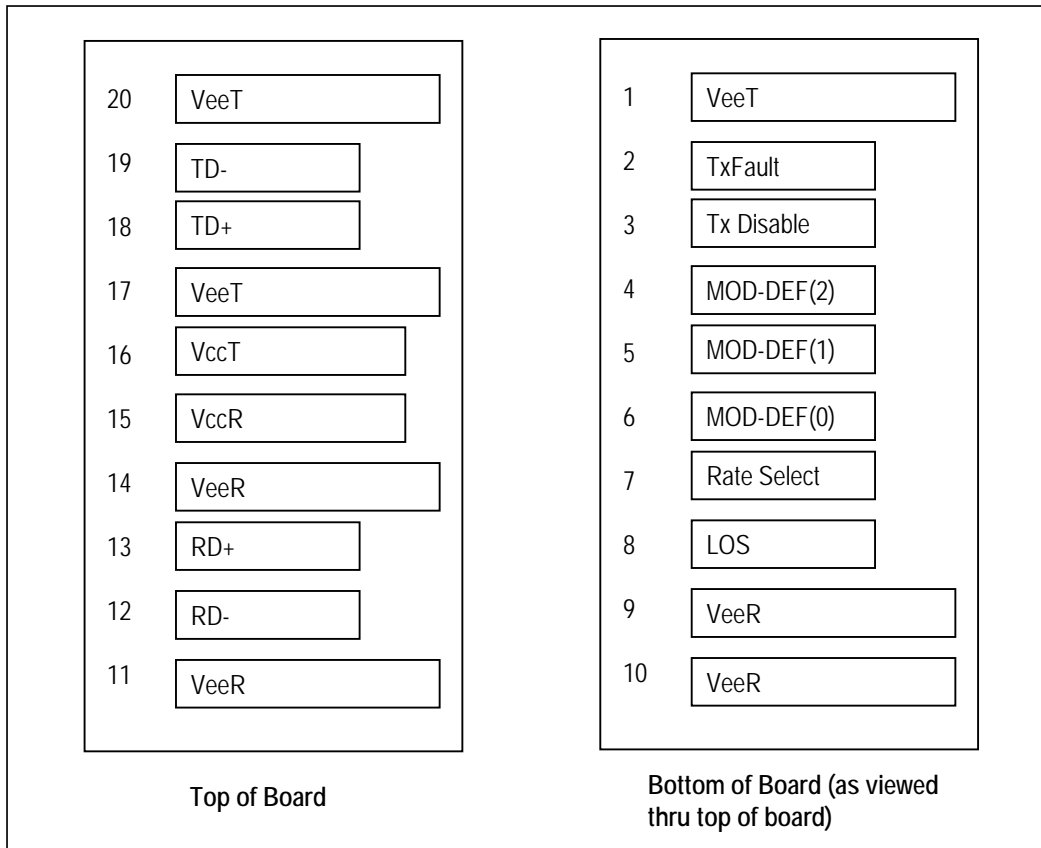
Notes:

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

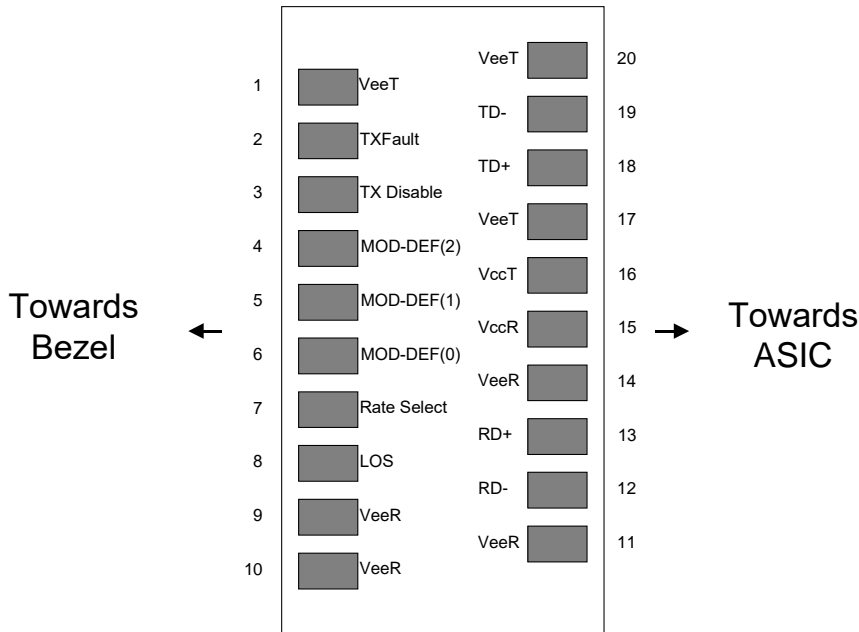
### Small Form-factor Pluggable (SFP) Transceiver MultiSource Agreement (MSA)



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**Figure 1. Diagram of Host Board Connector Block Pin Numbers and Names**


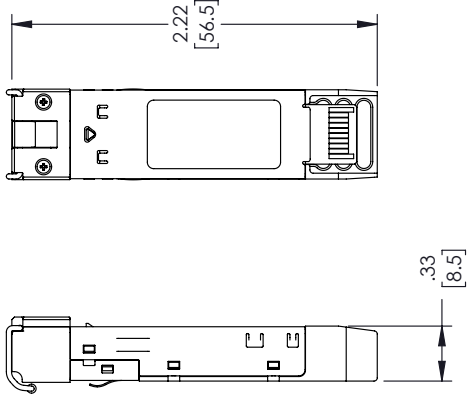

Fiber Optic Transceiver Series, SFP, DWDM, EZX 120KM, Gigabit Ethernet DDM, MSA Compliant from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

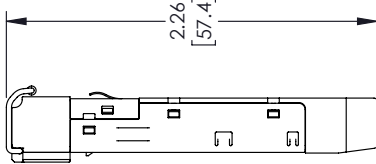
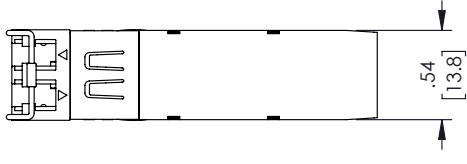
L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	07/06/2022
		APPROVED PHOSPODAR

**NOTES:**

- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
- ITEM NUMBER FXC-SFPDXXLR20C48 (BOTH FOR 80KM AND 120KM) AND FXC-SFPDXXEXX1G (FOR 120KM) ARE CODED FOR DWDM TRANSCEIVERS. XX REFERS TO DWDM WAVELENGTH CHANNEL 1530.33nm (D59) - 1561.42nm (D20).
- COMPONENT SHALL BE INDIVIDUALLY PACKAGED IN ACCORDANCE WITH L-COM SPECIFICATION PS-0031.

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<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [5.08]      FRACTIONS ± 1/32</p> <p>.XX = ±.02 [ .51]      ANGLES ± 1°</p> <p>.XXX = ±.005 [ .13]</p> <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] &lt; L ≤ 60 [1524] = +1 [25] / -0</p> <p>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</p> <p>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</p> <p>300 [7620] &lt; L = +5%L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>SIZE A      CAGE CODE 43321      DRAWN BY DZINN      ITEM NO. FXC-SFPDXX      REV. A</p>