

SO-SFP-L80D-50G-DXXXX

SFP, 1.25 Gbps GbE/FC, DWDM, 50GHz, DDM, 28dB, 80km, D9200-D9595 (80ch)

OVERVIEW

The SO-SFP-L80D-50G-Dxxxx is a DWDM transceiver for services from 100 Mbps (Fast Ethernet) up to 1.25 Gbps (Gigabit Ethernet).

The optical performance provides a bridgeable distance of up to 80km. The transceiver is provided in 80 channel versions at the 50GHz DWDM grid as specified in the ITU-T 694.1 standard.

This transceiver provides digital diagnostic functions via a 2-wire serial interface as defined by the SFF-8472 specification.

The transceiver module is compliant to RoHS-6/6.

TECHNICAL DATA

Technology	DWDM 50GHz SFP	
Transmission media	SM (2x LC)	
Typical reach	80 km	
Nominal wavelength	192.00 - 195.95 THz (80ch)	
Bit rate range	0.1 – 1.25 Gbps	
Protocols	Eth:	GbE FE
	SDH/SONET:	STM-4/OC-12 STM-1/OC-3
	FC:	1G FC
	CPRI:	Opt 1 (0.6144 Gbps) Opt 2 (1.2288 Gbps)
	OBSAI:	1x (0.768 Gbps)
Power budget	8.0 - 28.0 dB	
Temperature range	0°C to +70°C	
Power consumption	< 1.5W	

Transmitter data	Output power:	Min: 0.0 dBm Max: +5.0 dBm
	Tx wavelength:	192.00 - 195.95 THz in 50GHz steps (G.694.1)
Receiver data	Minimum input power:	-28.0 dBm ¹⁾
	Max input power:	-3.0 dBm
	Wavelength range:	1520 – 1566 nm
DDM		Yes
MSA compliance		SFP MSA SFF-8472

¹⁾ @ 1.25 Gbps

Regulatory compliance

EMC CE	EN 55022:2010 EN 55024:2010
UL/Safety	UL 60950-1
FCC	47 CFR PART 15 OCT, 2013
RoHS	RoHS 6
TUV	EN 60950-1:2006+A11+A1+A12+A2 EN 60825-1:2014 EN 60825-2:2004+A1+A2

Storage temp.	-40°C to 85°C
----------------------	---------------

Note! See "Definitions" below.

ORDERING INFORMATION

Part number	Freq. THz	λ nm
SO-SFP-L80D-50G-D9200	192.00	1561.42
SO-SFP-L80D-50G-D9205	192.05	1561.01
SO-SFP-L80D-50G-D9210	192.10	1560.61
SO-SFP-L80D-50G-D9215	192.15	1560.20
SO-SFP-L80D-50G-D9220	192.20	1559.79
SO-SFP-L80D-50G-D9225	192.25	1559.39
SO-SFP-L80D-50G-D9230	192.30	1558.98
SO-SFP-L80D-50G-D9235	192.35	1558.58
SO-SFP-L80D-50G-D9240	192.40	1558.17
SO-SFP-L80D-50G-D9245	192.45	1557.77
SO-SFP-L80D-50G-D9250	192.50	1557.36
SO-SFP-L80D-50G-D9255	192.55	1556.96
SO-SFP-L80D-50G-D9260	192.60	1556.55
SO-SFP-L80D-50G-D9265	192.65	1556.15
SO-SFP-L80D-50G-D9270	192.70	1555.75
SO-SFP-L80D-50G-D9275	192.75	1555.34
SO-SFP-L80D-50G-D9280	192.80	1554.94
SO-SFP-L80D-50G-D9285	192.85	1554.54
SO-SFP-L80D-50G-D9290	192.90	1554.13
SO-SFP-L80D-50G-D9295	192.95	1553.73
SO-SFP-L80D-50G-D9300	193.00	1553.33
SO-SFP-L80D-50G-D9305	193.05	1552.93
SO-SFP-L80D-50G-D9310	193.10	1552.52
SO-SFP-L80D-50G-D9315	193.15	1552.12
SO-SFP-L80D-50G-D9320	193.20	1551.72
SO-SFP-L80D-50G-D9325	193.25	1551.32
SO-SFP-L80D-50G-D9330	193.30	1550.92
SO-SFP-L80D-50G-D9335	193.35	1550.52
SO-SFP-L80D-50G-D9340	193.40	1550.12
SO-SFP-L80D-50G-D9345	193.45	1549.72
SO-SFP-L80D-50G-D9350	193.50	1549.32
SO-SFP-L80D-50G-D9355	193.55	1548.91
SO-SFP-L80D-50G-D9360	193.60	1548.51
SO-SFP-L80D-50G-D9365	193.65	1548.11
SO-SFP-L80D-50G-D9370	193.70	1547.72
SO-SFP-L80D-50G-D9375	193.75	1547.32
SO-SFP-L80D-50G-D9380	193.80	1546.92
SO-SFP-L80D-50G-D9385	193.85	1546.52
SO-SFP-L80D-50G-D9390	193.90	1546.12
SO-SFP-L80D-50G-D9395	193.95	1545.72

Part number	Freq. THz	λ nm
SO-SFP-L80D-50G-D9400	194.00	1545.32
SO-SFP-L80D-50G-D9405	194.05	1544.92
SO-SFP-L80D-50G-D9410	194.10	1544.53
SO-SFP-L80D-50G-D9415	194.15	1544.13
SO-SFP-L80D-50G-D9420	194.20	1543.73
SO-SFP-L80D-50G-D9425	194.25	1543.33
SO-SFP-L80D-50G-D9430	194.30	1542.94
SO-SFP-L80D-50G-D9435	194.35	1542.54
SO-SFP-L80D-50G-D9440	194.40	1542.14
SO-SFP-L80D-50G-D9445	194.45	1541.75
SO-SFP-L80D-50G-D9450	194.50	1541.35
SO-SFP-L80D-50G-D9455	194.55	1540.95
SO-SFP-L80D-50G-D9460	194.60	1540.56
SO-SFP-L80D-50G-D9465	194.65	1540.16
SO-SFP-L80D-50G-D9470	194.70	1539.77
SO-SFP-L80D-50G-D9475	194.75	1539.37
SO-SFP-L80D-50G-D9480	194.80	1538.98
SO-SFP-L80D-50G-D9485	194.85	1538.58
SO-SFP-L80D-50G-D9490	194.90	1538.18
SO-SFP-L80D-50G-D9495	194.95	1537.79
SO-SFP-L80D-50G-D9500	195.00	1537.40
SO-SFP-L80D-50G-D9505	195.05	1537.00
SO-SFP-L80D-50G-D9510	195.10	1536.61
SO-SFP-L80D-50G-D9515	195.15	1536.22
SO-SFP-L80D-50G-D9520	195.20	1535.82
SO-SFP-L80D-50G-D9525	195.25	1535.43
SO-SFP-L80D-50G-D9530	195.30	1535.04
SO-SFP-L80D-50G-D9535	195.35	1534.64
SO-SFP-L80D-50G-D9540	195.40	1534.25
SO-SFP-L80D-50G-D9545	195.45	1533.86
SO-SFP-L80D-50G-D9550	195.50	1533.47
SO-SFP-L80D-50G-D9555	195.55	1533.07
SO-SFP-L80D-50G-D9560	195.60	1532.68
SO-SFP-L80D-50G-D9565	195.65	1532.29
SO-SFP-L80D-50G-D9570	195.70	1531.90
SO-SFP-L80D-50G-D9575	195.75	1531.51
SO-SFP-L80D-50G-D9580	195.80	1531.12
SO-SFP-L80D-50G-D9585	195.85	1530.72
SO-SFP-L80D-50G-D9590	195.90	1530.33
SO-SFP-L80D-50G-D9595	195.95	1529.94

DEFINITIONS

Technology:	DWDM; Transceiver type for DWDM applications using G.694.1 channel grid.
Transmission Media:	Type of fiber, e.g. Multimode (MM) or Singlemode (SM). Number of and connector type within brackets (e.g. 2x LC, 1x MPO).
Typical reach:	Nominal distance performance based on dispersion and power budget properties, i.e. w/o dispersion compensation and optical amplification.
Bit rate range:	Supported bit rate range in Gigabit or Megabit per second (Gbps or Mbps).
Protocols:	Protocols within supported bit rate range.
Nominal wavelength:	Typical wavelength from transmitter.
Interface standards:	Referenced interface standards e.g. IEEE 802.3 standard for 10GbE services.
Power budget:	Min and max power budget between Transmitter and Receiver. Excluding any dispersion penalty.
Dispersion tolerance/penalty:	Maximum amount of tolerated dispersion and required reduction of power budget to maintain BER better than $1E^{-12}$. Defined at a specific bit rate.
Temperature range:	Max operating case temperature range. Standard temperature range: typically 0°C to +70°C (32°F to +158°F) Extended temperature range (E-temp): typically -20°C to +75°C (-4°F to +167°F) Industrial temperature range (I-temp): -40°C to +85°C (-40°F to +185°F)
Power consumption:	Worst case power consumption.
Transmitter Output power:	Average output power. Provided in min and max values.
Receiver minimum input power:	Minimum average input power at specified BER, normally $1E^{-12}$.
Receiver max input power:	Maximum average input power giving a BER, normally $1E^{-12}$.
DDM:	Digital Diagnostic Monitoring functionality as defined in SFF-8472 MSA.