

SFP+-Transceiver

> CWDM

CSS-852A14D0-xx

Product Description

- Compliant with SFF-8431 (Electrical Interface Specification)
- Data rate from 1.0625 to 11.1 Gbps bit rates
- EML transmitter
- 18 CWDM wavelength according to the ITU G.654.2 grid from 1270 nm to 1610 nm (20 nm spacing)
- Link budget at least 14 dB (without dispersion penalty)
- Built-in Digital Diagnostic Functions as specified in the SFF-8472 MSA
- RoHS compliant and lead free
- Case operation temperature range: -5°C to 70°C
- Applications:
 - 10GBASE-ER/EW 10G Ethernet
 - 1200-SM-LL-L 10G Fiber Channel
 - SDH STM S-64.2b
 - 8/4/2/1G Fiber Channel
 - 1000 BASE-EX Ethernet
- Compatible versions for different switch types available

■ Product Description: CWDM SFP+ Transceiver

■ Product Code: CSS-852A14D0

■ Channel Code: -ZZ (chosen from table below)

Channel	Code	Channel	Code
1271 nm	27	1451 nm	45
1291 nm	29	1471 nm	47
1311 nm	31	1491 nm	49
1331 nm	33	1511 nm	51
1351 nm	35	1531 nm	53
1371 nm	37	1551 nm	55
1391 nm	39	1571 nm	57
1411 nm	41	1591 nm	59
1431 nm	43	1611 nm	61

Example Order Code: CSS-852A14D0-49 for a SFP+ for the CWDM wavelength 1490 nm.



Revision History

No.	Description	Date	Created by
A	Initial release	12.11.12	Carsten Marheine

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General Specifications

Fiber Type	SMF-28 compatible	Ø 9 / 125 / 250µm
Storage Temperature	-40°C to +85°C	
Optical Adapters	LC/PC duplex	

Absolute Maximum Ratings

Supply Voltage	-0.3 V to 3.6 V
Relative Humidity	5 to 95%

Operating Conditions

Operating Case Temperature	-5°C to 70°C
Supply Voltage	3.15 V to 3.45 V (typ. 3.3 V)
Supply Current	< 600mA

Transmitter Specifications

Operating Channel	Any ITU CWDM channel from 1270 nm to 1610 nm, selected via order code
Channel Spacing	100 GHz
Average Optical Power	-2 ... +3 dBm
Extinction Ratio	> 3.5 dB

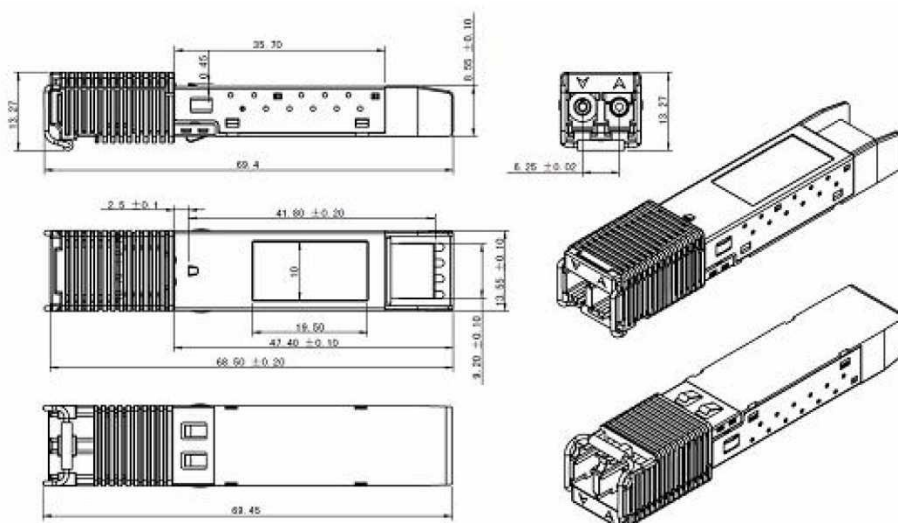
Receiver Specifications

Input Operating Wavelength	1260nm to 1620nm
Receiver Sensitivity (optical power)	< -16 dBm
Receiver LOS De-Assert	< -17 dBm
Receiver LOS De-Assert	> -28 dBm
Receiver Overload	> +0.5 dBm
Data Rate	1.0625 Gbps to 11.1 Gbps

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Package Outline



(All dimensions are shown in millimeters.)

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Available DWDM Channels

Channel Number	Frequency (GHz)	Wavelength (nm)	Channel Number	Frequency (GHz)	Wavelength (nm)
C17	191700	1563.86	C40	194000	1545.32
C18	191800	1563.05	C41	194100	1544.53
C19	191900	1562.23	C42	194200	1543.73
C20	192000	1561.42	C43	194300	1542.94
C21	192100	1560.61	C44	194400	1542.14
C22	192200	1559.79	C45	194500	1541.35
C23	192300	1558.98	C46	194600	1540.56
C24	192400	1558.17	C47	194700	1539.77
C25	192500	1557.36	C48	194800	1538.98
C26	192600	1556.55	C49	194900	1538.19
C27	192700	1555.75	C50	195000	1537.40
C28	192800	1554.94	C51	195100	1536.61
C29	192900	1554.13	C52	195200	1535.82
C30	193000	1553.33	C53	195300	1535.04
C31	193100	1552.52	C54	195400	1534.25
C32	193200	1551.72	C55	195500	1533.47
C33	193300	1550.92	C56	195600	1532.68
C34	193400	1550.12	C57	195700	1531.90
C35	193500	1549.32	C58	195800	1531.12
C36	193600	1548.51	C59	195900	1530.33
C37	193700	1547.72	C60	196000	1529.55
C38	193800	1546.92	C61	196100	1529.77
C39	193900	1546.12			

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