

SPDxx0800H0C – SFP+ Dual Fibre DWDM 100GHz

DWDM / 80km / OC-192 Multi-Rate

For your product safety, please read the following information carefully before any manipulation of the transceiver:

A (HBM). However, normal ESD precautions are still required during the handling of this module.





LASER SAFETY

ESD

This is a Class1 Laser Product according to IEC 60825-1:2007. This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

This transceiver is specified as ESD threshold 1kV for SFI pins and 2kV for all others electrical input pins, tested per MIL-STD-883G, Method 3015.4 /JESD22-A114-

The optical ports of the module need to be terminated with an optical connector or with a dust plug in order to avoid contamination.

1. Overview

SPDxx0800H0C is a high-performance transceiver module for OC-192 multi-rate data links over a single mode fibre pair. The maximum reach¹ is 80km, with 23dB end of life (EOL) power budget. The transmitter is a DWDM EML laser, the receiver is an APD photodiode.

This transceiver module is compliant with the Small Form-factor Pluggable (SFP+) Multisource Agreement (MSA) and hot pluggable. Always contact Skylane Optics[®] commercial agents for compatibility with different equipment platforms.

2. Features

- Electrical interface specification as per SFF-8431
- Hot pluggable SFP+ footprint
- Management interface specification as per SFF-8431 and SFF-8472
- Class 1 laser safety standard IEC 60825 compliant
- SFP+ MSA package with duplex LC connector
- DWDM EML transmitter
- APD receiver
- Internal CDR
- 80km point-to-point transmission on single mode fibre
- Operating temperature range 0°C to 70°C
- Power dissipation < 2.2W
- Digital Diagnostics monitoring (DDM)

3. Applications

- SONET OC-192/SDH STM-64
- 10GBASE-ZR/-ZW
- 10× Fiber Channel

4. Optical Interface

| P/N | Wavelength | Optical Output | Receiver | Dispersion | Receiver | Power Budget ² |
|--------------|------------|--------------------------|--------------------------------|--------------|-----------------------------|---------------------------|
| | [nm] | Power ² [dBm] | Sensitivity ³ [dBm] | Penalty [dB] | Overload ⁴ [dBm] | [dB] |
| SPDxx0800H0C | ITU DWDM | 0 to 5 | ≤ -23 | 3.5 | -6 | ≥ 23 |

1. Distance is estimated assuming typical optical losses after decent quality fibre deployment; Only optical budget value is guaranteed

2. EOL, over operating temperature range

3. Measured with 10.3Gbps PRBS 2^{31} -1, BER $\leq 10^{-12}$



Figure 1. SFP+ Dual Fiber (non-binding illustration)

^{4.} The optical input to the receiver should not exceed this value. Transmitters must never be directly connected to receivers (optical loop back) before ensuring that proper optical attenuation is used

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5. Technical Parameters

| 5.1. Recommended Operating Conditions | | | | | |
|---------------------------------------|------|-----|------|-------|----------------|
| Parameter | Min | Тур | Max | Units | Notes |
| Storage temperature | -40 | | 85 | °C | |
| Operating Case Temperature | 0 | | 70 | °C | |
| Relative Humidity | 5 | | 95 | % | Non condensing |
| Power Supply Voltage | 3.15 | 3.3 | 3.45 | V | |
| Power Supply Current | | | 670 | mA | |
| Power Dissipation | | | 2.2 | W | |

5.2. Transmitter Optical Specifications

| 5.2. Transmitter Opical Specifications | | | | |
|--|-------------------------------------|---|--|---|
| Min | Тур | Max | Unit | Notes |
| 0 | | 5 | dBm | 5 |
| 1528.77 | | 1563.86 | nm | |
| λτ -100 | λτ | λτ +100 | pm | 6 |
| | | 1 | nm | |
| 8.2 | | | dB | |
| | | 3.5 | dB | |
| | 0 1528.77 λ _T -100 | 0 λτ 1528.77 λτ | 0 5 1528.77 1563.86 λτ -100 λτ λτ +100 1 1 8.2 | 0 5 dBm 1528.77 1563.86 nm λτ -100 λτ λτ +100 pm 1 nm dB dB |

 $5. \quad Output \ power \ coupled \ into \ a \ 9/125 \ \mu m \ single-mode \ fibre \\ 6. \quad ITU-T \ G.694.1 \ DWDM. \ For \ available \ wavelengths, see \ section \ 9$

Towards BEZEL \leftarrow

| 5.3. Receiver Optical Specifications | | | | | |
|--------------------------------------|------|-----|------|------|-------|
| Parameter | Min | Тур | Max | Unit | Notes |
| Receiver Sensitivity | | | -23 | dBm | 7 |
| Receiver Overload | -6 | | | dBm | 7 |
| Receiver Operating Range | 1250 | | 1620 | nm | |

7. Measured with 10.3Gbps PRBS 2^{31} -1, BER<10⁻¹²

6. Transceiver Electrical Pad Layout

| | | VeeT | 20 |
|----|------------|------|----|
| 1 | VeeT | TD- | 19 |
| 2 | Tx_Fault | TD+ | 18 |
| 3 | Tx_Disable | VeeT | 17 |
| 4 | SDA | VccT | 16 |
| 5 | SCL | VccR | 15 |
| 6 | MOD_ABS | VeeR | 14 |
| 7 | RS0 | RD+ | 13 |
| 8 | Rx_LOS | RD- | 12 |
| 9 | RS1 | VeeR | 11 |
| 10 | VeeR | | |
| | | | |

 \rightarrow Towards ASIC

Figure 2. Transceiver Electrical Pad Layout

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7. Module Electrical Pin Definition

SFP+ MSA (SFF-8431)

| Pin Number | Name | Function |
|------------|-------------|-------------------------------------|
| 1 | VeeT | Module Transmitter Ground |
| 2 | Tx_Fault | Module Transmitter Fault |
| 3 | Tx_ Disable | Transmitter Disable |
| 4 | SDA | 2-Wire Serial Interface Data |
| 5 | SCL | 2-Wire Serial Interface Clock |
| 6 | Mod_ABS | Module Absent |
| 7 | RS0 | Not Used |
| 8 | Rx_LOS | Receiver Loss of Signal |
| 9 | RS1 | Not Used |
| 10 | VeeR | Module Receiver Ground |
| 11 | VeeR | Module Receiver Ground |
| 12 | RD- | Receiver Inverted Data Output |
| 13 | RD+ | Receiver Non-Inverted Data Output |
| 14 | VeeR | Module Receiver Ground |
| 15 | VccR | Module Receiver 3.3V Supply |
| 16 | VccT | Module Transmitter 3.3V Supply |
| 17 | VeeT | Module Transmitter Ground |
| 18 | TD+ | Transmitter Non-Inverted Data Input |
| 19 | TD- | Transmitter Inverted Data Input |
| 20 | VeeT | Module Transmitter Ground |

8. EEPROM

SFP+ MSA (SFF-8472)







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9. Ordering Information



| Part Number | Description |
|--------------|--|
| SPD170800H0C | SFP+ DWDM Dual Fibre, Tx 1563.86nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD180800H0C | SFP+ DWDM Dual Fibre, Tx 1563.05nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD190800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1562.23nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD200800H0C | SFP+ DWDM Dual Fibre, Tx 1561.42nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD210800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1560.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD220800H0C | SFP+ DWDM Dual Fibre, Tx 1559.79nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD230800H0C | SFP+ DWDM Dual Fibre, Tx 1558.98nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD240800H0C | SFP+ DWDM Dual Fibre, Tx 1558.17nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD250800H0C | SFP+ DWDM Dual Fibre, Tx 1557.36nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD260800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1556.56nm (DWDM EML), Rx (APD), maximum distance 80km, b b b c 2010 b c 2010 b b b c 2010 b c 2010 |
| SPD270800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1555.75nm (DWDM EML), Rx (APD), maximum distance 80km, h |
| SPD280800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1554.94nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 2010 OC 102 m bit of LC connector 0°C to 70°C, DDM |
| SPD290800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1554.13nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD300800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1553.33nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB OC 102 m bit of LC connector 0°C to 70°C, DDM |
| SPD310800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1552.52nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB OC 102 m bit of LC memory for 0°C to 70°C DDM |
| SPD320800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1551.72nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB OC 102 m bit of LC memory for 0°C to 70°C, DDM |
| SPD330800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1550.92nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD340800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1550.12nm (DWDM EML), Rx (APD), maximum distance 80km, b b b c 2010 b b c 2010 |
| SPD350800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1549.32nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB, OC 102 m bit of a LC moment of 0°C to 70°C, DDM |
| SPD360800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1548.52nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 221B, OC 102 m bit of LC memory for 0°C to 70°C, DDM |
| SPD370800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1547.72nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB OC 102 m binst LC memory for 0°C to 70°C, DDM |
| SPD380800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1546.92nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 221B QC 102 m bit of LC moments of 0°C to 70°C, DDM |
| SPD390800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1546.12nm (DWDM EML), Rx (APD), maximum distance 80km, below to 2010, OC 102 with out of 100 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD400800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1545.32nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 221B, OC 102 b b c 102 b |
| SPD410800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1544.53nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22lB QC 102 b b c 102 b c 102 b b c 102 b c 10 |
| SPD420800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1543.73nm (DWDM EML), Rx (APD), maximum distance 80km, b b c 22 lB OC 102 m bit of LC memory for 0°C to 70°C DDM |
| SPD430800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1542.94nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD440800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1542.14nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD450800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1541.35nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD460800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1540.56nm (DWDM EML), Rx (APD), maximum distance 80km, label at 221B QC 102 at his star LC connector, 0°C to 70°C, DDM |
| SPD470800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SFP+ DWDM Dual Fibre, Tx 1539.77nm (DWDM EML), Rx (APD), maximum distance 80km, b b b c 102 b 102 500 500 500 500 |
| | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |

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| SPD480800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD490800H0C SFP+ DWDM Dual Fibre, Tx 1538.19mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD500800H0C SFP+ DWDM Dual Fibre, Tx 1537.4mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC | | |
|---|----------------|---|
| SPD490800H0C SFP+ DWDM Dual Fibre, Tx 1538.19nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD500800H0C SFP+ DWDM Dual Fibre, Tx 1537.4nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.62nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1534.26nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.190m (DWD | SPD480800H0C | SFP+ DWDM Dual Fibre, Tx 1538.98nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD490800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD500800H0C SFP+ DWDM Dual Fibre, Tx 1537.4nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC | 51210000000 | |
| power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD500800H0C SFP+ DWDM Dual Fibre, Tx 1537.4nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1531.02nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.02nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM <td>SPD490800H0C</td> <td>SFP+ DWDM Dual Fibre, Tx 1538.19nm (DWDM EML), Rx (APD), maximum distance 80km,</td> | SPD490800H0C | SFP+ DWDM Dual Fibre, Tx 1538.19nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD500800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.02nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC | 51 249000010G | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD510800H0C SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25m (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1531.02 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12 mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12 mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.3 mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-r | SDD500800H0C | SFP+ DWDM Dual Fibre, Tx 1537.4nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD510800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC | SFD500800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| Bit Street power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD520800H0C SFP+ DWDM Dual Fibre, Tx 1535.82mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1533.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1530.33mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55mm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC c | | SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD520800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC | SPDS10800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD530800H0C SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum dis | SDDE20800110C | SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD530800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD540800H0C SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPD520800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD540800H0CSFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD550800H0CSFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD560800H0CSFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD560800H0CSFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD570800H0CSFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD580800H0CSFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD590800H0CSFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD500800H0CSFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD600800H0CSFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDMSPD610800H0CSFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM | 0000000000 | SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD540800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM </td <td>SPD550800H0C</td> <td>power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM</td> | SPD550800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD550800H0C SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power bu | SDDE 40900110C | SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD550800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPD540800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD560800H0C SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM | CDDEE0000110C | SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD560800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPDSS0800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD570800H0C SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1533.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM | | SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD5/0800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPD500800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD580800H0C SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | CDD570000110C | SFP+ DWDM Dual Fibre, Tx 1531.90nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD580800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD590800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | 25D210800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | CDDE90900110C | SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD590800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPDS0000H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| spb600800H0C SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM spb610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | CDDE00900110C | SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD600800H0C power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM SPD610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | SPD590800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| spp610800H0C SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, | 000000000000 | SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML), Rx (APD), maximum distance 80km, |
| SPD610800H0C | 25D000800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |
| SPLOIUSUUHUG power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C. DDM | 000001000 | SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML), Rx (APD), maximum distance 80km, |
| | SPD610800H0C | power budget 23dB, OC-192 multi-rate, LC connector, 0°C to 70°C, DDM |

10. Document Revision Information

| Revision | Description |
|----------|-----------------|
| Α | Initial release |

