

TSFP-NBx-120

SFP, DWDM Tunable, Narrow Band (ITU 16 - 64),
1G, 120km, SMF/LC

Product Features:

- 1Gbps Tunable Transmitter
- APD Receiver
- ITU 16-64 Channel Coverage
- TOUGH Channel Spacing
- SMF Transmission Medium
- LC/UPC Connector
- Digital Diagnostics Monitoring (DDM)
- External Tuning Capability
- <2.5W Power Consumption



Product Applications:

- 1000Base-ZX+

Standards:

- Compliant with SFF-8472
- Compliant with SFF-8690
- RoHS 6 Compliant

General Specifications:

| Parameter | Min | Typical | Max | Unit |
|-----------------------|-------|---------|-------|------|
| Operating Temperature | 0 | - | 70 | °C |
| Operating Humidity | - | - | 2.0 | W |
| Power Supply Current | - | 600 | 700 | mA |
| Power Supply Voltage | 3.135 | 3.3 | 3.465 | V |
| Operating Humidity | 5 | - | 95 | % |
| Storage Temperature | -40 | - | 85 | °C |
| Transmission Distance | - | - | 120 | km |
| Data Rate (Total) | - | - | 1.25 | Gbps |

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Optical Characteristics: Transmitter

| Parameter | Min | Typical | Max | Unit |
|-----------------------------|-------------|---------|-------------|------|
| Band 0 Frequency Range | 191.60 (16) | - | 191.90 (19) | THz |
| Band 1 Frequency Range | 192.00 (20) | - | 192.80 (28) | THz |
| Band 2 Frequency Range | 192.90 (29) | - | 193.60 (36) | THz |
| Band 3 Frequency Range | 193.70 (37) | - | 194.40 (44) | THz |
| Band 4 Frequency Range | 194.50 (45) | - | 195.20 (52) | THz |
| Band 5 Frequency Range | 195.30 (53) | - | 196.00 (60) | THz |
| Band 6 Frequency Range | 196.10 (61) | - | 196.40 (64) | THz |
| Channel Spacing | - | 100 | - | GHz |
| Frequency Accuracy | -12.5 | - | 12.5 | GHz |
| Transmit Power | -1 | - | 4.0 | dBm |
| Spectral Width | - | 0.3 | 0.5 | nm |
| Side Mode Suppression Ratio | 35 | - | - | dB |
| Extinction Ratio | 9 | - | - | dB |
| Tuning Speed | - | - | 1 | s |

Optical Characteristics: Receiver

| Parameter | Min | Typical | Max | Unit |
|----------------------|------|---------|------|------|
| Receiver Wavelength | 1520 | - | 1577 | nm |
| Maximum Input Power | -7 | - | - | dBm |
| Damage Threshold | 5 | - | - | dBm |
| Receiver Sensitivity | - | - | -30 | dBm |
| Receiver Reflectance | - | - | -27 | dB |

Product Ordering Information

| Part Number | Description |
|--------------|---|
| TSFP-NB0-120 | SFP, DWDM Tunable, Narrow Band 0 (ITU 16-19), 1G, 120km, C-Temp |
| TSFP-NB1-120 | SFP, DWDM Tunable, Narrow Band 1 (ITU 20-28), 1G, 120km, C-Temp |
| TSFP-NB2-120 | SFP, DWDM Tunable, Narrow Band 2 (ITU 29-36), 1G, 120km, C-Temp |
| TSFP-NB3-120 | SFP, DWDM Tunable, Narrow Band 3 (ITU 37-44), 1G, 120km, C-Temp |
| TSFP-NB4-120 | SFP, DWDM Tunable, Narrow Band 4 (ITU 45-52), 1G, 120km, C-Temp |
| TSFP-NB5-120 | SFP, DWDM Tunable, Narrow Band 5 (ITU 53-60), 1G, 120km, C-Temp |
| TSFP-NB6-120 | SFP, DWDM Tunable, Narrow Band 6 (ITU 61-64), 1G, 120km, C-Temp |

r1_06012026