

PRE-XFP-MFCT-80

XFP, DWDM Tunable, C-Band (ITU 13.5 – 61) SMF, 80km, 10Gbps



Product Features:

- ILMZ Tunable Transmitter
- 1528.77nm - 1566.72nm
- APD Receiver
- 96 channel, 50GHz DWDM Grid
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- Supports Bit Rates up to 11.35Gbps
- CDR Capable



Product Applications:

- 10G Ethernet
- SONET SDH
- OTN Transport

General Specifications

| Parameter | Symbol | Min | Typ | Max | Unit |
|---|----------|------|-----|-------|------|
| Case Operating Temperature (Commercial) | T_{op} | -5 | - | 70 | °C |
| Power Consumption | P_w | - | - | 2.5 | W |
| Power Supply Current | I_{cc} | - | - | 400 | mA |
| Power Supply Voltage | V_{cc} | 3.15 | 3.3 | 3.45 | V |
| Storage Humidity | H_s | 5 | - | 95 | % |
| Storage Temperature | T_s | -40 | - | 85 | °C |
| Transmission Distance | TD | - | - | 80 | km |
| Data Rate (Total) | DR_T | 9.95 | - | 11.35 | Gbps |

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Optical Characteristics: Transmitter

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------------|------------------|--------|------------|--------|------|
| Frequency Range | f | 191.35 | 50GHz Grid | 196.10 | THz |
| Frequency Accuracy | - | -2.5 | - | 2.5 | GHz |
| Transmit Power | P _{OUT} | -1 | - | 3 | dBm |
| Spectral Width | σ | - | 0.3 | 0.5 | nm |
| Side Mode Suppression Ratio | SMSR | 35 | - | - | dB |
| Extinction Ratio | ER | 9 | - | - | dB |
| Transmitter OFF Output Power | P _{OFF} | - | - | -40 | dB |

Optical Characteristics: Receiver

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------|------------------|-------|-----|-------|------|
| Receiver Wavelength | λ_r | 1525 | - | 1575 | nm |
| Damage Threshold | P _D | +12 | - | - | dBm |
| Input Saturation Power | P _{SAT} | -5 | - | - | dBm |
| Receiver Sensitivity | R | - | -26 | - | dBm |
| LOS Assert | LOS _A | -33 | - | -28.5 | dBm |
| LOS De-Assert | LOS _D | -32.5 | - | -26.5 | dBm |
| LOS Hysteresis | LOS _H | 0.5 | - | 4 | dB |

Product Ordering Information

| Part Number | Description |
|-----------------|---|
| PRE-XFP-MFCT-80 | XFP, DWDM Tunable, C-Band (ITU 13.5 – 61) SMF, 80km, 10Gbps, C-Temp |