

## PRE-XFP-Dxx-40

XFP, DWDM 100GHz, ITU 17-61, SMF, 40km, 10Gbps



### Product Features:

- EML Transmitter
- PIN Receiver
- 100GHz DWDM Grid
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp
- Supports Bit Rates up to 11.3Gbps



### Product Applications:

- 10G Ethernet
- SONET SDH
- OTN Transport

### General Specifications

| Parameter                               | Symbol   | Min  | Typ | Max  | Unit |
|---|----------|------|-----|------|------|
| Case Operating Temperature (Commercial) | $T_{op}$ | 0    | -   | 70   | °C   |
| Power Consumption                       | $P_w$    | -    | -   | 3.5  | W    |
| Power Supply Current                    | $I_{cc}$ | -    | -   | 450  | mA   |
| Power Supply Voltage                    | $V_{cc}$ | 3.13 | -   | 3.47 | V    |
| Storage Humidity                        | $H_s$    | 5    | -   | 95   | %    |
| Storage Temperature                     | $T_s$    | -40  | -   | 85   | °C   |
| Transmission Distance                   | TD       | -    | -   | 40   | km   |
| Data Rate (Total)                       | $DR_T$   | 9.95 | -   | 11.3 | Gbps |

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### Optical Characteristics: Transmitter

| Parameter                    | Symbol      | Min               | Typ | Max               | Unit |
|------------------------------|-------------|-------------------|-----|-------------------|------|
| Center Wavelength            | $\lambda_c$ | $\lambda_c - 0.1$ | -   | $\lambda_c + 0.1$ | nm   |
| Transmit Power               | $P_{OUT}$   | -1                | -   | 4                 | dBm  |
| Spectral Width               | $\sigma$    | -                 | -   | 1                 | nm   |
| Side Mode Suppression Ratio  | SMSR        | 30                | -   | -                 | dB   |
| Extinction Ratio             | ER          | 8.2               | -   | -                 | dB   |
| Transmitter OFF Output Power | $P_{OFF}$   | -                 | -   | -30               | dBm  |

### Optical Characteristics: Receiver

| Parameter              | Symbol      | Min  | Typ | Max   | Unit |
|------------------------|-------------|------|-----|-------|------|
| Receiver Wavelength    | $\lambda_r$ | 1260 | -   | 1600  | nm   |
| Input Saturation Power | $P_{SAT}$   | 0.5  | -   | -     | dBm  |
| Receiver Sensitivity   | R           | -    | -   | -16.5 | dBm  |
| LOS Assert             | $LOS_A$     | -32  | -   | -     | dBm  |
| LOS De-Assert          | $LOS_D$     | -    | -   | -18   | dBm  |
| LOS Hysteresis         | $LOS_H$     | 0.5  | -   | -     | dB   |

### Product Ordering Information

| Part Number    | Description  |
|----------------|--|
| PRE-XFP-Dxx-40 | XFP, DWDM 100GHz, ITU 17-61, SMF, 40km, 10Gbps, C-Temp |