

## PRE-SFP-160

SFP, 1550nm, 160km, 1.25 Gbps



### Product Features:

- DFB Transmitter
- APD Receiver
- SMF Transmission Medium
- Digital Diagnostic Monitoring (DDM)
- C-Temp and I-Temp Available



### Applications:

- 1G Ethernet

### General Specifications

| Parameter                               | Symbol   | Min  | Typ | Max  | Unit |
|---|----------|------|-----|------|------|
| Case Operating Temperature (Commercial) | $T_{op}$ | 0    | -   | 70   | °C   |
| Power Consumption                       | $P_w$    | -    | -   | 1    | W    |
| Power Supply Current                    | $I_{cc}$ | -    | -   | 300  | mA   |
| Power Supply Voltage                    | $V_{cc}$ | 3.13 | 3.3 | 3.47 | V    |
| Storage Humidity                        | $H_s$    | 5    | -   | 95   | %    |
| Storage Temperature                     | $T_s$    | -40  | -   | 85   | °C   |
| Transmission Distance                   | TD       | -    | -   | 160  | km   |
| Data Rate (Total)                       | $DR_T$   | -    | -   | 1.25 | Gbps |

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### Optical Characteristics: Transmitter

| Parameter                    | Symbol      | Min  | Typ  | Max  | Unit |
|------------------------------|-------------|------|------|------|------|
| Center Wavelength            | $\lambda_c$ | 1530 | 1550 | 1570 | nm   |
| Transmit Power               | $P_{OUT}$   | 2    | -    | 6    | dBm  |
| Spectral Width               | $\sigma$    | -    | -    | 1    | nm   |
| Side Mode Suppression Ratio  | SMSR        | 30   | -    | -    | dB   |
| Dispersion Penalty           | DP          | -    | -    | 3    | dB   |
| Extinction Ratio             | ER          | 9    | -    | -    | dB   |
| Transmitter OFF Output Power | $P_{OFF}$   | -    | -    | -45  | dB   |

### Optical Characteristics: Receiver

| Parameter              | Symbol      | Min  | Typ | Max  | Unit |
|------------------------|-------------|------|-----|------|------|
| Receiver Wavelength    | $\lambda_r$ | 1270 | -   | 1610 | nm   |
| Damage Threshold       | $P_D$       | 5    | -   | -    | dBm  |
| Input Saturation Power | $P_{SAT}$   | -10  | -   | -    | dBm  |
| Receiver Sensitivity   | R           | -    | -   | -34  | dBm  |
| LOS Assert             | $LOS_A$     | -40  | -   | -    | dBm  |
| LOS De-Assert          | $LOS_D$     | -    | -   | -36  | dBm  |
| LOS Hysteresis         | $LOS_H$     | 0.5  | 2.0 | 6.0  | dB   |

### Product Ordering Information

| Part Number | Description                           |
|-------------|---------------------------------------|
| PRE-SFP-160 | SFP, 1550nm, 160km, 1.25 Gbps, C-Temp |