

# PRE-O400-DR4+

OSFP, DR4+, 1310nm, 400G, 2km,  
SMF/MPO12-APC, C-Temp



## Product Features:

- EML Transmitters
- PIN Receivers
- Up to 2km on Single Mode Fiber
- MPO-12/APC Optical Connector
- < 12W Power Consumption
- Commercial Temperature Rated
- Digital Diagnostic Monitoring (DDM)



## Product Applications:

- 400GBASE-DR4 Ethernet
- 4x100GBASE-FR Ethernet

## Standards:

- OSFP MSA
- CMIS
- RoHS
- Class 1 Laser

## General Specifications:

| Parameter               | Min   | Typical | Max   | Unit | Note |
|-------------------------|-------|---------|-------|------|------|
| Operating Temperature   | 0     | -       | 70    | °C   |      |
| Operating Humidity      | 5     | -       | 85    | %    |      |
| Power Consumption       | -     | -       | 12    | W    |      |
| Power Supply Voltage    | 3.135 | 3.3     | 3.465 | V    |      |
| Transmission Distance   | -     | -       | 2     | km   |      |
| Data Rate (Total)       | -     | 425     | -     | Gbps | 1    |
| Signaling Rate per Lane | -     | 26.5625 | -     | GBd  | 2    |

Notes:

1 - Total aggregate bit rate

2 - Per lane electrical signalling rate with PAM4 modulation

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## Optical Characteristics: Transmitter

| Parameter   | Min    | Typical | Max    | Unit |
|---|--------|---------|--------|------|
| Wavelength  | 1304.5 | 1310    | 1317.5 | nm   |
| Average Launch Power, per lane                            | -2.9   | -       | 4      | dBm  |
| Transmitter OFF Output Power, per lane                    | -      | -       | -15    | dBm  |
| Transmitter and Dispersion Eye Closure for PAM4, per lane | -      | -       | 3.4    | dBm  |
| Extinction Ratio  | 3.5    | -       | -      | dB   |

## Optical Characteristics: Receiver

| Parameter                               | Min    | Typical | Max    | Unit |
|---|--------|---------|--------|------|
| Wavelength                              | 1304.5 | 1310    | 1317.5 | nm   |
| Damage Threshold, per lane              | 5      | -       | -      | dBm  |
| Average Receive Power, per lane         | -6.9   | -       | 4      | dBm  |
| Stressed Receiver Sensitivity, per lane | -      | -       | -2.3   | dBm  |
| Receiver Reflectance                    | -      | -       | -26    | dB   |

## Product Ordering Information

| Part Number   | Description  |
|---------------|--|
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