

PRE-O800-IB-2VR4

OSFP800, 2x400G-VR4, 850nm, 800GE/InfiniBand,
50m, MMF/Dual MPO12-APC, C-Temp



Product Features:

- VCSEL Transmitters
- PIN Receivers
- 50m Reach over MMF
- Dual MPO-12/APC Optical Connector
- < 16W Power Consumption
- Commercial Temperature Rated
- Digital Diagnostic Monitoring (DDM)



Product Applications:

- 1x800G Ethernet
- 2x400G Ethernet/InfiniBand
- 4x200G Ethernet/InfiniBand
- 8x100G Ethernet

Standards:

- OSFP MSA
- CMIS
- IEEE 802.3 and 802.3ck
- ROHS
- Class 1 Laser

General Specifications:

Parameter	Min	Typical	Max	Unit	Note
Operating Temperature	0	-	70	°C	
Operating Humidity	5	-	85	%	
Power Consumption	-	-	16	W	
Power Supply Voltage	3.135	3.3	3.465	V	
Transmission Distance	-	-	50	m	
Data Rate (Total)	-	850	-	Gbps	1
Signaling Rate per Lane	-	53.125	-	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	842	850	868	nm
Average Launch Power, per lane	-4.6	-	4	dBm
Transmitter OFF Output Power, per lane	-	-	-30	dBm
Transmitter and Dispersion Eye Closure for PAM4, per lane	-	-	4.4	dBm
RMS Spectral Width	-	-	0.65	dB
Extinction Ratio	2.5	-	-	dB

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Wavelength	842	-	870	nm
Damage Threshold, per lane	5	-	-	dBm
Average Receive Power, per lane	-6.3	-	4	dBm
Stressed Receiver Sensitivity, per lane	-	-	-1.8	dBm
Receiver Reflectance	-	-	-15	dB

Product Ordering Information

Part Number	Description
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