

PRE-QD800-2VR4

QSFP-DD800, 2x400G-VR4, 850nm, 800G, 50m, MMF/Dual MPO12-APC, C-Temp



Product Features:

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



Product Applications:

- 1x 800GBASE-VR8
- 2x 400GBASE-VR4
- 4x 200GBASE-VR2
- 8x 100GBASE-VR1

Standards:

- QSFP-DD MSA
- CMIS
- IEEE Std 802.3df-2024
- RoHS

General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature		0	-	70
Power Consumption		-	-	16
Power Supply Voltage		3.135	3.3	3.465
Operating Humidity		5	-	85
Storage Temperature		-40	-	85
Transmission Distance		-	-	50
Data Rate (Total)		-	850	-
Signaling Rate per Lane		-	53.125	-

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Optical Characteristics: Transmitter

Parameter		Min	Typical	Max	Unit
Wavelength		842	850	870	nm
Average Transmit Power, per Lane		-4.6	-	4	dBm
Outer Optical Modulation Amplitude(OMA _{outer}), each lane	for max (TECQ, TDECQ) ≤1.8 dB	-2.6	-	3.5	dBm
	for 1.8 < max (TECQ, TDECQ) ≤4.4 dB	-4.4 + max (TECQ,TDECQ)			
Transmitter and Dispersion Eye Closure for PAM4, per Lane		-	-	4.4	dB
Transmitter eye closure for PAM4, each lane		-	-	4.4	dB
Optical Return Loss Tolerance		-	-	14	dB
Transmitter OFF Output Power, per lane		-	-	-30	dBm
Extinction Ratio		2.5	-	-	dB

Optical Characteristics: Receiver

Parameter		Min	Typical	Max	Unit
Wavelength		840	-	870	nm
Damage Threshold, each Lane		5	-	-	dBm
Average Receive Power, each Lane		-6.3	-	4	dBm
Receive Power (OMA _{outer}), each Lane		-	-	3.5	dBm
Receiver Reflectance		-	-	-15	dB
Receiver Sensitivity (OMA _{outer})	for TECQ ≤ 1.8 dB	-	-	-4.4	dBm
	for 1.8 dB < TECQ ≤ 4.4 dB	-6.2 + TECQ			
Stressed Receiver Sensitivity (OMA _{outer}), each lane		-	-	-1.8	dBm

Product Ordering Information

Part Number	Description
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