

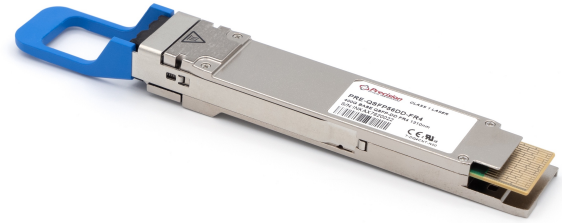
PRE-QSFP56DD-FR4

QSFPDD, CWDM4, SMF, 2km, 400Gbps



Product Features:

- EML Transmitters
- PIN Receivers
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)



Product Applications:

- 400G Ethernet

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Power Consumption	P_w	-	-	12	W
Power Supply Current	I_{cc}	-	-	3640	mA
Power Supply Voltage	V_{cc}	3.14	3.3	3.46	V
Storage Humidity	H_s	0	-	85	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	2	km
Data Rate (Total)	DR_T	-	425	-	Gbps
Data Rate (Per Lane)	DR_{lane}	-	53.125	-	GBd

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**Optical Characteristics: Transmitter**

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength 1	λ_1	1264.5	1271	1277.5	nm
Center Wavelength 2	λ_2	1284.5	1291	1297.5	nm
Center Wavelength 3	λ_3	1304.5	1311	1317.5	nm
Center Wavelength 4	λ_4	1324.5	1331	1337.5	nm
Transmit Power per lane	P_{OUT}	-3.3	-	3.5	dBm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Dispersion Penalty per lane	DP	-	-	3.4	dB
Extinction Ratio	ER	3.5	-	-	dB
Relative Intensity Noise	RIN	-	-	-136	dB/Hz
Transmitter OFF Output Power per lane	P_{OFF}	-	-	-20	dBm

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength 1	λ_1	1264.5	1271	1277.5	nm
Receiver Wavelength 2	λ_2	1284.5	1291	1297.5	nm
Receiver Wavelength 3	λ_3	1304.5	1311	1317.5	nm
Receiver Wavelength 4	λ_4	1324.5	1331	1337.5	nm
Damage Threshold per lane	P_D	4.5	-	-	dBm
Receiver Sensitivity per lane (@ SECQ = 1)	R	-	-	-5	dBm
Average Receive Power per lane	P_{RX}	-7.3	-	3.5	dBm
LOS Assert	LOS_A	-20	-	-	dBm
LOS De-Assert	LOS_D	-	-	-10.3	dBm
LOS Hysteresis	LOS_H	0.5	-	-	dB

Product Ordering Information

Part Number	Description
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