

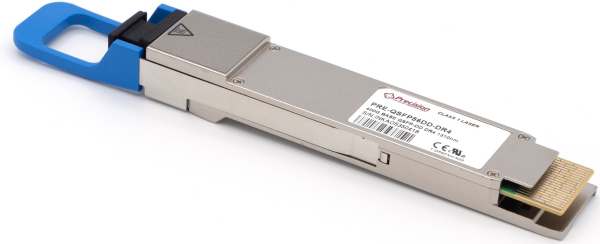
PRE-QSFP56DD-DR4

QSFPDD, 1310nm, SMF, 500m, 400Gbps



Product Features:

- EML Transmitters
- PIN Receivers
- SMF Transmission Medium
- MPO-12 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	-	-	0.5	km
Data Rate (Total)	DR_T	-	425	-	Gbps
Data Rate (Per Lane)	DR_{lane}	-	26.5625	-	GBd

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	1304.5	1310	1317.5	nm
Transmit Power per lane	P_{OUT}	-2.9	-	4	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}	-	-	-15	dBm

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Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	λ_c	1304.5	1310	1317.5	nm
Damage Threshold per lane	P _D	5	-	-	dBm
Receiver Sensitivity per lane (@ SECQ = 1)	R	-	-	-4.3	dBm
Average Receive Power per lane	P _{RX}	-5.9	-	4	dBm
LOS Assert	LOS _A	-15	-	-	dBm
LOS De-Assert	LOS _D	-	-	-8.9	dBm
LOS Hysteresis	LOS _H	0.5	-	-	dB

Product Ordering Information

Part Number	Description
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