

PRE-QSFP28-PLR4L

QSFP28, 1310nm, SMF, 2km, 100Gbps



Product Features:

- DFB Transmitters
- PIN Receivers
- 4 Lane SMF Transmission Medium
- MPO-12 Connector Type
- Digital Diagnostics Monitoring (DDM)



Product Applications:

- 100G Ethernet

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Power Consumption	P_w	-	-	3.5	W
Power Supply Current	I_{cc}	-	-	1060	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	-	103.125	-	Gbps
Data Rate (Per Lane)	DR_{lane}	-	25.78125	-	GBd

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	1295	1310	1325	nm
Transmit Power per lane	P_{OUT}	-5.5	-	2	dBm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Optical Modulation Amplitude per lane	OMA	-3.5	-	2.2	dBm
Dispersion Penalty per lane	DP	-	-	2.9	dB
Extinction Ratio	ER	3.5	-	-	dB
Relative Intensity Noise	RIN	-	-	-128	dB/Hz
Transmitter OFF Output Power per lane	P_{OFF}	-	-	-30	dBm

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Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	λ_c	1295	1310	1325	nm
Damage Threshold per lane	P_D	4.5	-	-	dBm
Receiver Sensitivity per lane	R	-	-	-9	dBm
LOS Assert	LOS_A	-	-20	-	dBm
LOS De-Assert	LOS_D	-	-	-18	dBm
LOS Hysteresis	LOS_H	0.5	-	-	dB

Product Ordering Information

Part Number	Description
PRE-QSFP28-PLR4L	QSFP28, 1310nm, SMF, 2km, 100Gbps, C-Temp