

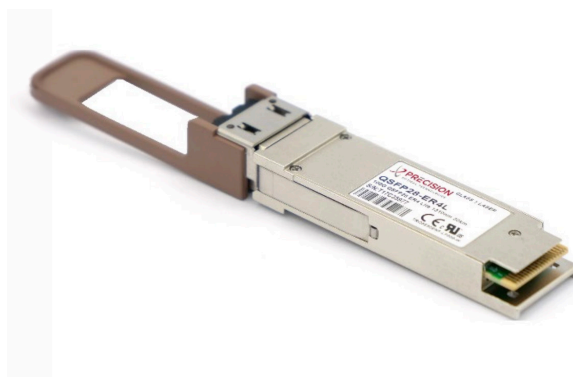
PRE-QSFP28-ER4L(I)

QSFP28, ER4L, LWDM, 100G, 25/40km, SMF/LC



Product Features:

- LWDM Cooled EML Laser Transmitters
- APD Receivers
- SMF Transmission Medium
- Duplex LC/UPC Connector
- C and I-Temp Available
- Digital Diagnostic Monitoring (DDM)
- $\leq 5.5\text{W}$ Power Consumption
- 40km Transmission with KR4 FEC



Product Applications:

- Data Centers
- Backhaul Networks
- 100GBASE-ER4 Ethernet

Standards:

- RoHS Compliant
- Class 1 Laser
- 100G 4WDM-40 MSA
- SFF-8636/8661/8665/8679

General Specifications:

Parameter	Min	Typ	Max	Unit
Case Operating Temperature (C-Temp)	0°	-	70	°C
Case Operating Temperature (I-Temp)	-40	-	85	°C
Power Consumption (C-Temp)	-	-	5	W
Power Consumption (I-Temp)	-	-	5.5	W
Power Supply Voltage	3.14	3.3	3.46	V
Operating Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance w/FEC	-	-	40	km
Transmission Distance w/o FEC	-	-	30	km
Data Rate (Total)	-	-	103.125	Gbps
Data Rate (Per Lane)	-	-	25.78125	Gbps

PRE-QSFP28-ER4L(I)

QSFP28, ER4L, LWDM, 100G, 25/40km, SMF/LC



Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit	Note
Center Wavelength 1	1294.53	1295.56	1296.59	nm	
Center Wavelength 2	1299.02	1300.05	1301.09	nm	
Center Wavelength 3	1303.54	1304.58	1305.63	nm	
Center Wavelength 4	1308.09	1309.14	1310.19	nm	
Average Transmit Power (Per Lane)	-2.5	-	6.5	dBm	4
Transmit Power (Per lane, OMA)	0.5	-	6.5	dBm	5
Side Mode Suppression Ratio	30	-	-	dB	
Dispersion Penalty (Per Lane)	-	-	3	dB	6
Extinction Ratio	4.5	-	-	dB	7
Transmitter OFF Output Power	-	-	-30	dBm	

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit	Note
Receiver Wavelength 1	1294.53	1295.56	1296.59	nm	
Receiver Wavelength 2	1299.02	1300.05	1301.09	nm	
Receiver Wavelength 3	1303.54	1304.58	1305.63	nm	
Receiver Wavelength 4	1308.09	1309.14	1310.19	nm	
Damage Threshold (Per Lane)	—	—	-2.5	dBm	8
Average Receive Power (Per Lane, w/o FEC)	-16.51	—	—	dBm	9
Average Receive Power (Per Lane, w/ FEC)	-20.51	—	-3.5	dBm	10
Receiver Sensitivity (Per Lane, OMA)	—	—	-18.5	dBm	11
Receiver Overload (Per Lane, OMA)	-3.5	—	—	dBm	

Product Ordering Information

Part Number	Description
PRE-QSFP28-ER4L	QSFP28, ER4L, LWDM, 100G, 25/40km, SMF/LC, C-Temp, DDM
PRE-QSFP28-ER4LI	QSFP28, ER4L, LWDM, 100G, 25/40km, SMF/LC, I-Temp, DDM

r2_08062026