

PRE-QSFP-ER4

QSFP, ER4, 1310nm, 40G, 40km SMF/LC



Product Features:

- DFB Laser Transmitters
- CWDM Wavelengths
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp Rated
- 40Gbps Maximum Data Rate
- <3.5W Power Consumption



Product Applications:

- LAN/WAN
- 40GBASE-ER4

Standards:

- IEEE 802.3bm
- SFF-8436
- RoHS

General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature (C-Temp)	0	-	70	°C
Power Consumption	-	-	3.5	W
Power Supply Voltage	3.135	3.3	3.465	V
Storage Humidity	5	-	95	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	40	km
Data Rate (Total)	-	41.25	-	Gbps
Data Rate (Per Lane)	-	10.3125	-	Gbps

PRE-QSFP-ER4

QSFP, ER4, 1310nm, 40G, 40km SMF/LC



Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength 1	1264.5	1271	1277.5	nm
Center Wavelength 2	1284.5	1291	1297.5	nm
Center Wavelength 3	1304.5	1311	1317.5	nm
Center Wavelength 4	1324.5	1331	1337.5	nm
Transmit Power per Lane (Avg)	-2.7	-	4.5	dBm
Transmit Power per Lane (OMA)	-0.3	-	5	dBm
Spectral Width (-20dB)	-	-	1	nm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio	5.5	-	-	dB
Relative Intensity Noise	-	-	-128	dB/Hz
Output Power (Poff) per Lane	-	-	-30	dBm

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Receiver Wavelength 1	1264.5	1271	1277.5	nm
Receiver Wavelength 2	1284.5	1291	1297.5	nm
Receiver Wavelength 3	1304.5	1311	1317.5	nm
Receiver Wavelength 4	1324.5	1331	1337.5	nm
Receive Power per Lane (Avg)	-21.2	-	4.5	dBm
Receiver Sensitivity per Lane (OMA)	-	-	-19	dBm
Saturation Power (Overload)	4.5	-	-	dBm
Damage Threshold per Lane	3.8	-	-	dBm
LOS Assert	-35	-	-	dBm
LOS De-Assert	-	-	-23	dBm
LOS Hysteresis	0.5	-	-	dB

Product Ordering Information

Part Number	Description
PRE-QSFP-ER4	QSFP, ER4, 1310nm, 40G, 40km SMF/LC, C-Temp

r2_07222026