

PRE-QSFP-ZR4

QSFP, ZR4, LWDM, 40G, 80km, SMF/LC, C-Temp



Product Features:

- EML Transmitters
- SOA-PIN Receivers
- LWDM Wavelengths
- SMF Transmission Medium
- LC/UPC Connector
- Digital Diagnostic Monitoring (DDM)
- C-Temp Rated
- 40Gbps Maximum Data Rate
- <5.5W Power Consumption



Product Applications:

- Backhaul Networks
- WAN Networks
- 40GBASE-ZR4 Ethernet

Standards:

- RoHS
- Class 1 Laser
- SFF-8636/8679

General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature	0	-	70	°C
Power Consumption	-	-	5.5	W
Power Supply Voltage	3.135	3.3	3.465	V
Storage Humidity	5	-	95	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	80	km
Data Rate (Total)	41.25	103.125	112.2	Gbps
Data Rate (Per Lane)	10.3125	25.78125	28.05	Gbps

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Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength 1	1294.53	1295.56	1296.59	nm
Center Wavelength 2	1299.02	1300.05	1301.59	nm
Center Wavelength 3	1303.54	1304.58	1305.63	nm
Center Wavelength 4	1308.09	1309.14	1310.19	nm
Transmit Power per Lane (Avg) ¹	2.0	-	6.5	dBm
Total Launch Optical Power ¹	-	-	12.5	dBm
Spectral Width (-20dB)	-	-	1	nm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio ¹	8.0	-	-	dB
Output Power (P _{off}) per Lane ¹	-	-	-30	dBm

Note 1: Measured with a PRBS 231-1 test pattern @10.3125Gbps

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
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
Receive Sensitivity per Lane (Avg) ¹	-	-	-28	dBm
Receiver Sensitivity per Lane (OMA) ¹	-	-	-26.9	dBm
Saturation Power (Overload)	2.0	-	-	dBm
Damage Threshold per Lane	4.5	-	-	dBm
LOS Assert	-35	-	-	dBm
LOS De-Assert	-	-	-28	dBm
LOS Hysteresis	0.5	-	5.0	dB

Note 1: Measured with PRBS 231-1 test pattern, 10.3125Gb/s, BER 5.0E-5

Product Ordering Information

Part Number	Description
PRE-QSFP-ZR4	QSFP, ZR4, LWDM, 40G, 80km, SMF/LC, C-Temp, DDM