

PRE-CFP-ER4, PRE-CFPM-ER4

CFP, 1310nm, SMF, 40km, 100Gbps & 112Gbps



Product Features:

- EML Transmitters
- SOA-PIN Receivers
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)



Product Applications:

- 100G Ethernet
- OTN Transport

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Power Consumption	P_w	-	-	9	W
Power Supply Current	I_{cc}	-	-	2700	mA
Power Supply Voltage	V_{cc}	3.2	3.3	3.4	V
Storage Humidity	H_s	5	-	95	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	40	km
Data Rate (Total)	DR_T	103.125	-	111.81	Gbps
Data Rate (Per Lane)	DR_{lane}	25.78125 ± 100 ppm	-	27.95249 ± 20 ppm	GBd

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength 1	λ_1	1294.53	1295.56	1296.59	nm
Center Wavelength 2	λ_2	1299.02	1300.05	1301.09	nm
Center Wavelength 3	λ_3	1303.54	1304.58	1305.63	nm
Center Wavelength 4	λ_4	1308.09	1309.14	1310.19	nm
Transmit Power per lane (100GE)	P_{OUT}	-2.9	-	2.9	dBm
Transmit Power per lane (OTU4)	P_{OUT}	-2.7	-	2.9	dBm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Dispersion Penalty per lane	DP	-	-	2.5	dB
Extinction Ratio (100GE & OTU4)	ER	8	-	-	dB
Relative Intensity Noise	RIN	-	-	-130	dB/Hz
Transmitter OFF Output Power per lane	P_{OFF}	-	-	-30	dBm

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength 1	λ_1	1294.53	1295.56	1296.59	nm
Receiver Wavelength 2	λ_2	1299.02	1300.05	1301.09	nm
Receiver Wavelength 3	λ_3	1303.54	1304.58	1305.63	nm
Receiver Wavelength 4	λ_4	1308.09	1309.14	1310.19	nm
Damage Threshold per lane	P_D	5.5	-	-	dBm
Receiver Sensitivity per lane (100GE)	R	-	-	-21.4	dBm
Receiver Sensitivity per lane (OTU4)	R	-	-	-23.2	dBm

Product Ordering Information

Part Number	Description
PRE-CFP-ER4	CFP, 1310nm, SMF, 40km, 100Gbps
PRE-CFPM-ER4	CFP, 1310nm, SMF, 40km, 112Gbps