



2Gbps 1310nm Single-mode Dual Receiver 2x5 Small Form Factor

Features

- Dual Receiver with LC Receptacle
- Small Form Factor 2 x 5 Pins
- AC Coupled and LVPECL Data Output
- TTL Signal Detect Output
- Single 3.3V Power Supply



Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Data Rate (NRZ)	B	-	2	-	Gb/s
Optical Input (avg.) Sensitivity ^{(1) (3)}	P _{IN}	-	-	-23	dBm
Saturation	P _S	0	-	-	dBm
Optical Wavelength	λ	1260	1310	1360	nm
Output Rise Time (10-90%)	t _r	-	-	0.18	ns
Output Fall Time (10-90%)	t _f	-	-	0.18	ns
Data Output ⁽⁴⁾	V _{OL} V _{OH}	V _{CC} -1.840 V _{CC} -1.045	- -	V _{CC} -1.62 V _{CC} -0.88	V V
Signal Detect Asserted (avg)	P _A	-	-	-24	dBm
Signal Detect Deasserted (avg)	P _D	-30	-	-	dBm
Hysteresis	Hys	-	2	-	dB
Supply Voltage	V _{CC}	3.1	3.3	3.5	V
Supply Current	I _{CC}	-	-	100	mA

Note:

- (1) With 0.275 NA, 9/125μm fiber.
- (2) Eye mask diagram is compliant to FC-PI-2 Eye Diagram.
- (3) 2⁷ -1 PRBS, BER= 10⁻¹².
- (4) Compatible LVPECL logic levels.



2Gbps 1310nm Single-mode Dual Receiver 2x5 Small Form Factor

Pinout Description

Pin No.	Pin Name	Description
1	#1 V_{EER}	#1 Receiver Ground
2	#1 V_{CCR}	#1 Receiver Power Supply
3	#1 SD	#1 Receiver Signal Detect
4	#1 \overline{RD}	#1 Receiver Data Out(Inverted)
5	#1 RD	#1 Receiver Data Out
6	#2 RD	#2 Receiver Data Out
7	#2 \overline{RD}	#2 Receiver Data Out(Inverted)
8	#2 SD	#2 Receiver Signal Detect
9	#2 V_{CCR}	#2 Receiver Power Supply
10	#2 V_{EER}	#2 Receiver Ground