

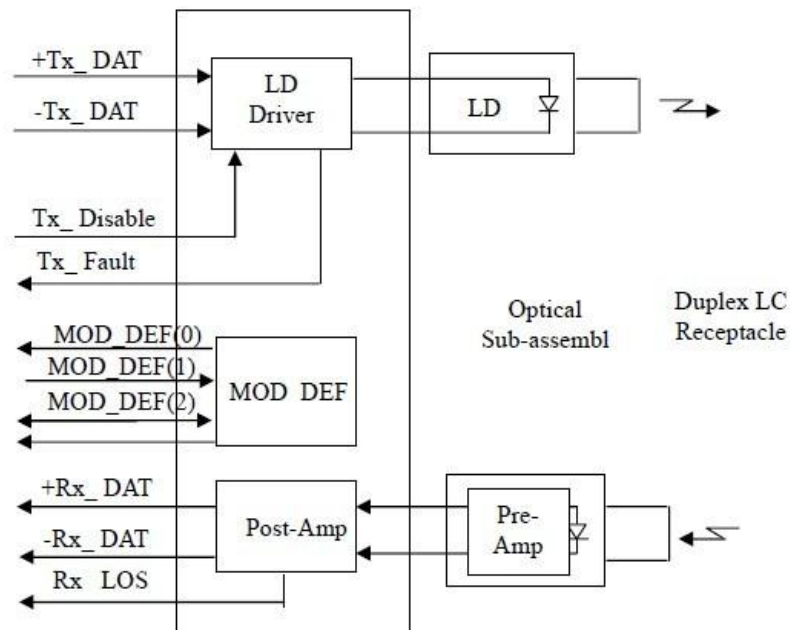


MOD_DEF (1), MOD_DEF (2)- Low	V <sub>IL</sub>	-0.6	-	V <sub>CC</sub> ×0.3	V
MOD_DEF (1), MOD_DEF (2)- High	V <sub>IH</sub>	V <sub>CC</sub> ×0.7	-	V <sub>C</sub> +0.5	V

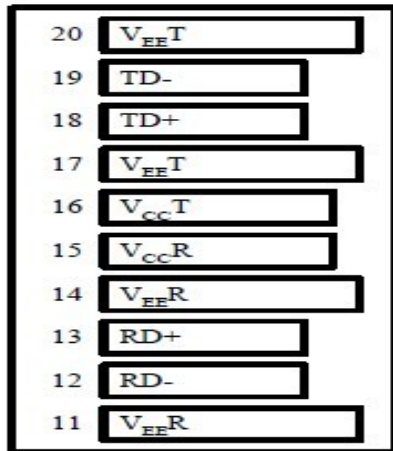
**Transmitter Electro-optical Characteristics ( V<sub>CC</sub> = 3.15V to 3.45V, T<sub>C</sub> = 0°C to 70°C ) :**

Parameter	Symbol	Min.	Typical	Max.	Unit
<b>Transmitter</b>					
Data Rate	B	-	1.25	-	Gb/s
Center Wavelength (0~70°C)	λ <sub>C</sub>	1480	1550	1580	nm
Output Spectral Width	Δλ	-	-	1	nm
Optical Output Powe	P <sub>o</sub>	0	-	+5	dBm
Extinction Ratio	ER	9	-	-	dB
Rise and Fall Time (20~80%)	Tr/T <sub>f</sub>		-	160	ps
Relative Intensity Noise	RIN		-	-120	dB/Hz
Total Jitter	TJ		-	100	ps
Output Eye	Compliant with IEEE802.3z				
<b>Receiver</b>					
Parameter	Symbol	Min.	Typical	Max.	Unit
Minimum Input Optical Power (Sensitivity)	P <sub>min</sub>	-	-	-30	dBm
Maximum Input Optical Power	P <sub>max</sub>	-5	-	-	dBm
Operating Center Wavelength	λ <sub>C</sub>	1100		1600	nm
LOS of Signal - Deasserted	P <sub>D</sub>	-	-	-35	dBm
LOS of Signal - Asserted	P <sub>A</sub>	-45	-	-	dBm
Loss of Signal Hysteresis	P <sub>D</sub> -P <sub>A</sub>		3	-	dB
Alarm Output Interface	LV-TTL-				

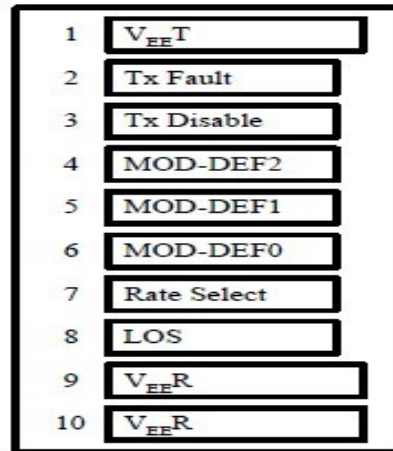
**Block Diagram of Transceiver:**



**Pin Assignment:**



Top of Board

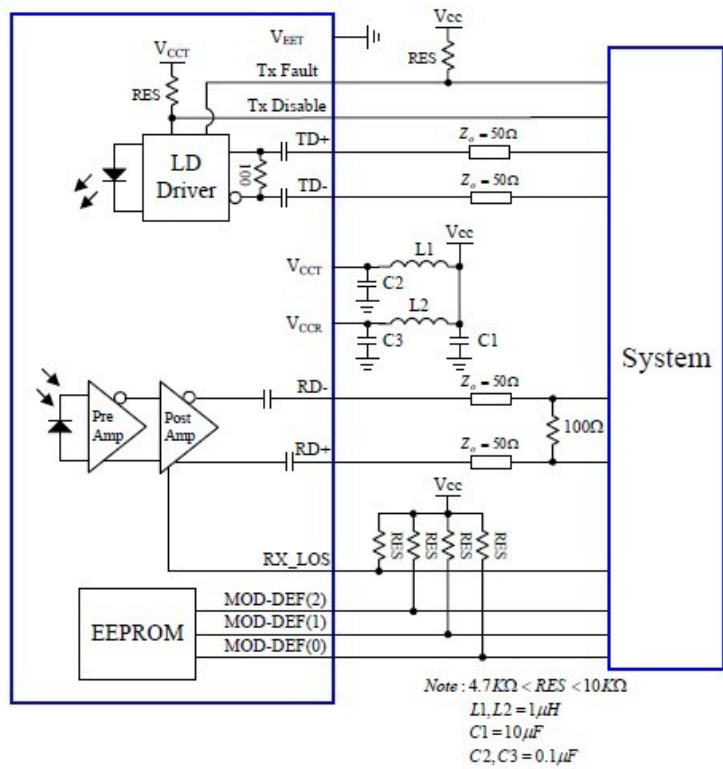


Bottom of Board (As Viewed through Top of Board)

**Pin Description:**

Pin	Symbol	Functional Description
1	VeeT	Transmitter Ground
2	TX Fault	Transmitter Fault Indication
3	TX Disable	Transmitter Disable–Module disables on high or open
4	MOD-DEF(2)	Module Definition 2–Two wire serial ID interface
5	MOD-DEF(1)	Module Definition 1–Two wire serial ID interface
6	MOD-DEF(0)	Module Definition 0–Grounded in module
7	Rate Select	Not Connected
8	LOS	Loss of Signal
9	VeeR	Receiver Ground
10	VeeR	Receiver Ground
11	VeeR	Receiver Ground
12	RD-	Inverse Received Data Out
13	RD+	Received Data Out
14	VeeR	Receiver Ground
15	VccR	Receiver Power
16	VccT	Transmitter Power
17	VeeT	Transmitter Ground
18	TD+	Transmitter Data In
19	TD-	Inverse Transmitter Data In
20	VeeT	Transmitter Ground

Recommended circuit schematic:



Mechanical Dimensions:

