

84Mb/S TTL SINGLE MODE DUPLEX FIBERS OPTICAL TRANSCEIVER

Feature:

- SC/FC/ST receptacle optical interface and pigtail optical interface
- Multi-mode Duplex fibers optical transceiver
- Standard +3.3V/ or +5V Power Supply
- Standard TTL data output with signal detect indication, compatible with CMOS level
- Standard 1×9 package
- High quality 1310nm MQW-FP LD/ 1550nm FP LD
- Receiver has a planar InGaAsP PIN

Application:

- Applied to the optical fiber transmission system with the rate below 84Mb/s.

Parameter

Parameter	Condition	Min	Typ	Max
Wavelength (nm)	1310nm	1260	1310	1360
	1550nm	1530	1550	1570
Power Supply (V)	Vcc	3.135	3.3	3.465
		4.75	5	5.25
Signal Level	TTL		0~5.0	
	LVTTL		0~3.3	
Output Spectral Width (nm)	FP-LD,RMS			4
	DFB-LD,-20dB			1
Extinction Ratio (dB)	EX	10		
Overload (dBm)	BER=1×10 ⁻¹⁰	-3		
Current of transmitter section (mA)	Vcc=5V			65
	Vcc=3.3V			65
Current of receiver section (mA)	Vcc=5V			50
	Vcc=3.3V			50

Data Rate, LD , Wavelength and Mode, Po , Sen, Reach

Data rate	LD	Wavelength and Mode	P0 (dBm)	Sensitivity (dBm)	Reach
84Mb/s	1310nmFP	SM 1310nm	≥-14	≤-34	20km
84Mb/s	1310nmFP	SM 1310nm	≥-12	≤-35	40km
84Mb/s	1310nmFP	SM 1310nm	≥-6	≤-36	60km
84Mb/s	1550nmDFB	SM 1550nm	≥-8	≤-36	80km
84Mb/s	1550nmDFB	SM 1550nm	≥-3	≤-37	100km
84Mb/s	1550nmDFB	SM 1550nm	≥-2	≤-37	120km

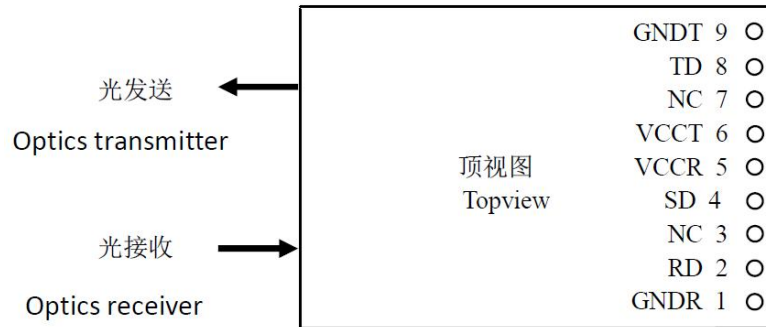
Absolute Maximum Ratings

Operating temperature (°C)	0~+70	Lead soldering temperature (°C)	<26
	-40~+84		0
Storage temperature (°C)	-40~+85	Soldering duration (Sec)	<10

Pin Definitions

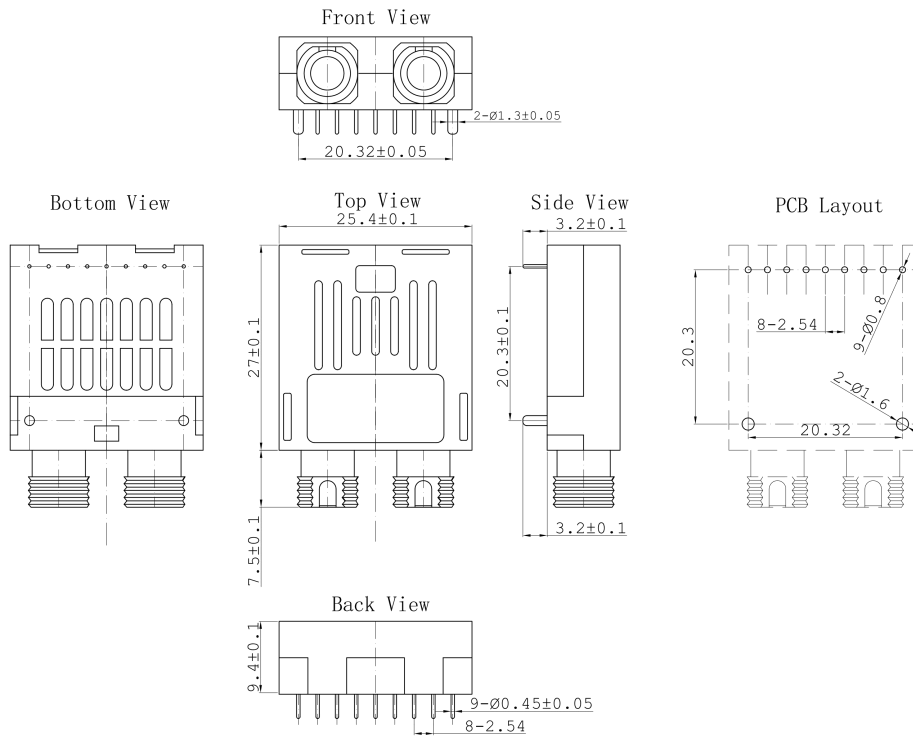
Pin	Name	Level	Description
1	GNDR		Signal ground for Receiver
2	RD	TTL/LVTTL	Data output of receiver section
3	NC		No connect
4	SD	TTL/LVTTL	Signal Detect
5	VccR		Power supply for receiver
6	VccT		Power supply for transmitter
7	NC		No connect
8	TD	TTL/LVTTL	Data input of transmitter section
9	GNDR		Signal ground for Transmitter

Topview

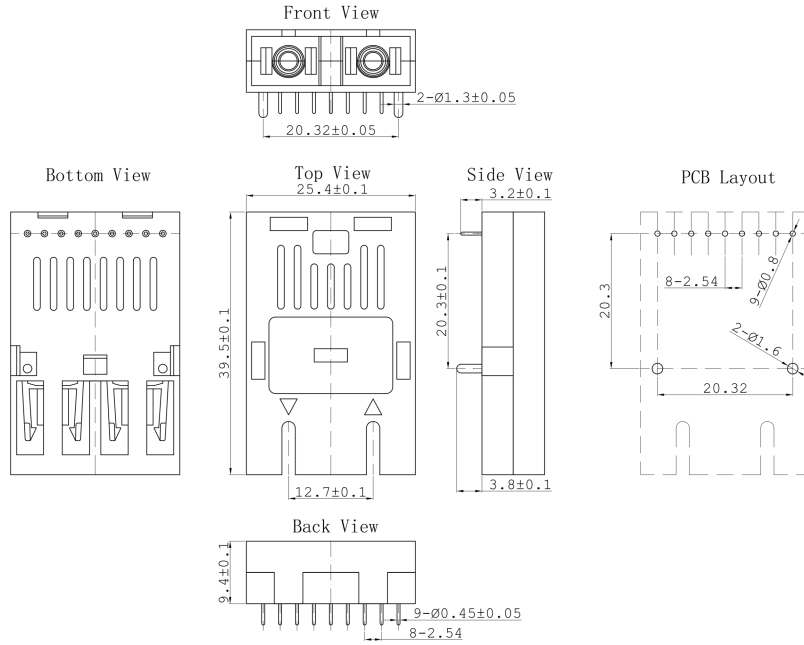


Dimension and optical interface

Duplex FC optical interface



Duplex SC optical interface



Duplex ST optical interface

