

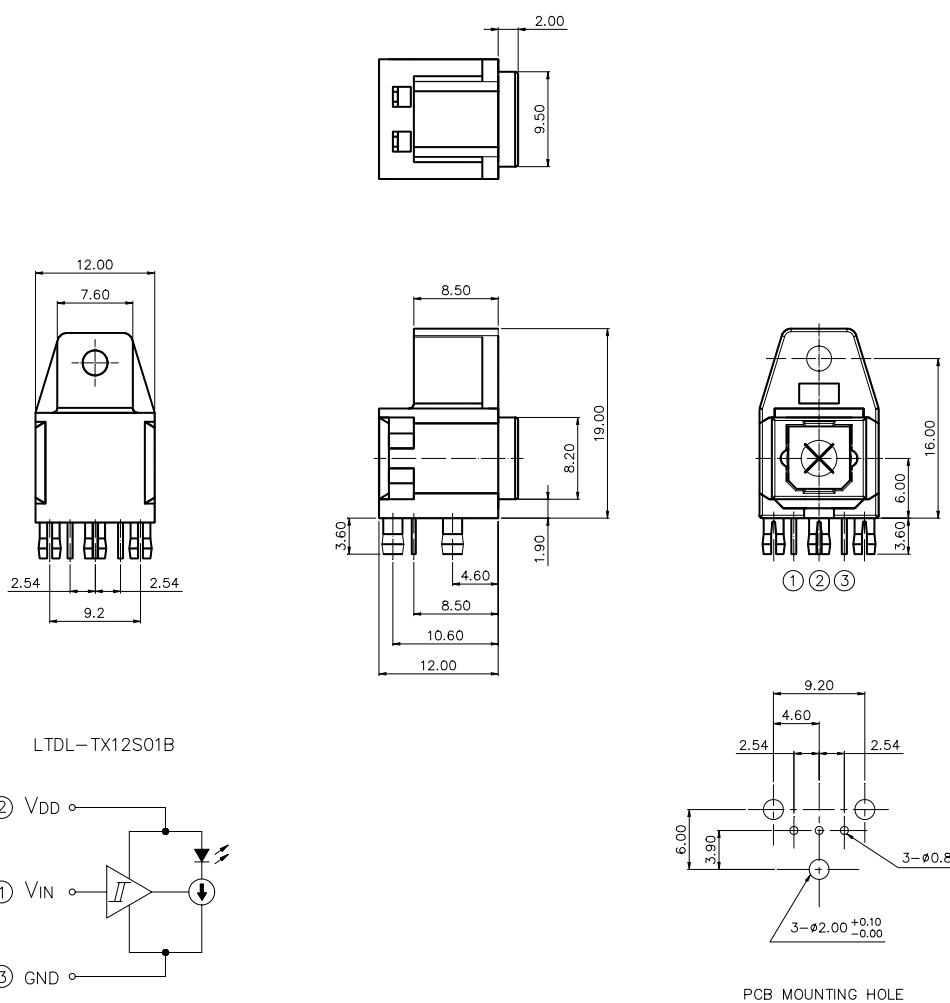
FEATURES

- * High speed transmission (13.2 Mbps , NRZ code)
- * Build-in LED driving circuit allows connecting directly to modulation IC for digital audio equipment.
- * Wide range of operating voltage from 3V to 5V
- * Same package as fiber optic receiving module LTDL-RX16S01B

APPLICATIONS

- * Digital audio system
- * CD, MD & DVD players

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.3 mm (.012") unless otherwise noted.
3. In the absence of confirmation by device data sheets, LITE-ON takes no responsibility for any defects that may occur in equipment using any devices shown in catalogs, data book, etc. Contact LITE-ON in order to obtain the latest device data sheets before using any LITE-ON device.



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ELECTRO - OPTICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATINGS AT TA=25

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V _{DD})	-0.5 ~ +7	V
Input Voltage (V _{IN})	-0.5 ~ V _{DD} +0.5	V
Operating Temperature Range	-20 to +70	
Storage Temperature Range	-30 to +80	
Lead Soldering Temperature [1.6mm(.063") From Body]	260 for 5 Seconds	

The shutter may not recover completely after duration or when it was used in high temperature enviroment.

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25

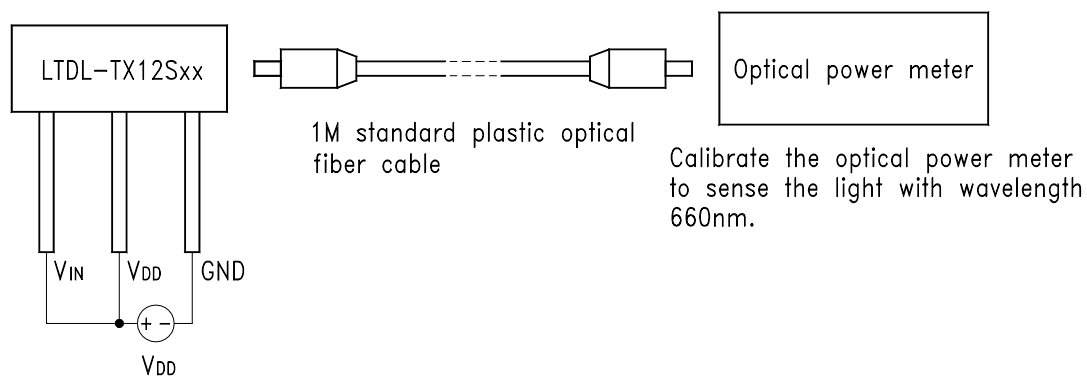
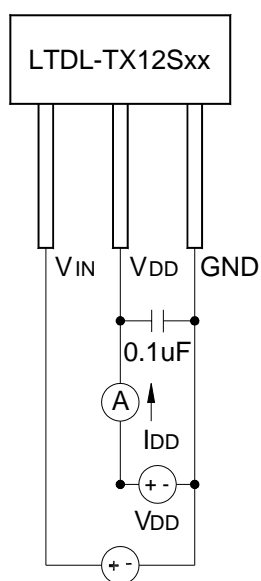
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Data Rate	T _s	-	-	13.2	Mbps	NRZ code
Operating Voltage	V _{DD}	2.75	-	5.25	V	
Peak Emission Wavelength	Peak	630	650	690	nm	
Fiber Coupling Light Output	P _c	-21	-17	-15	dBm	*1
Current Consumption	I _{DD}	-	6	8	mA	
High Level Input Voltage	V _{IH}	2	-	-	V	
Low Level Input Voltage	V _{IL}	-	-	0.8	V	
“Low→High”propagation delay time	t _{PLH}	-	-	166	ns	*2
“High→Low”propagation delay time	t _{PHL}	-	-	155	ns	
Pulse Width Distortion	t _w	-18	-	+18	ns	
Jitter	t _j	-	1	18	ns	*2

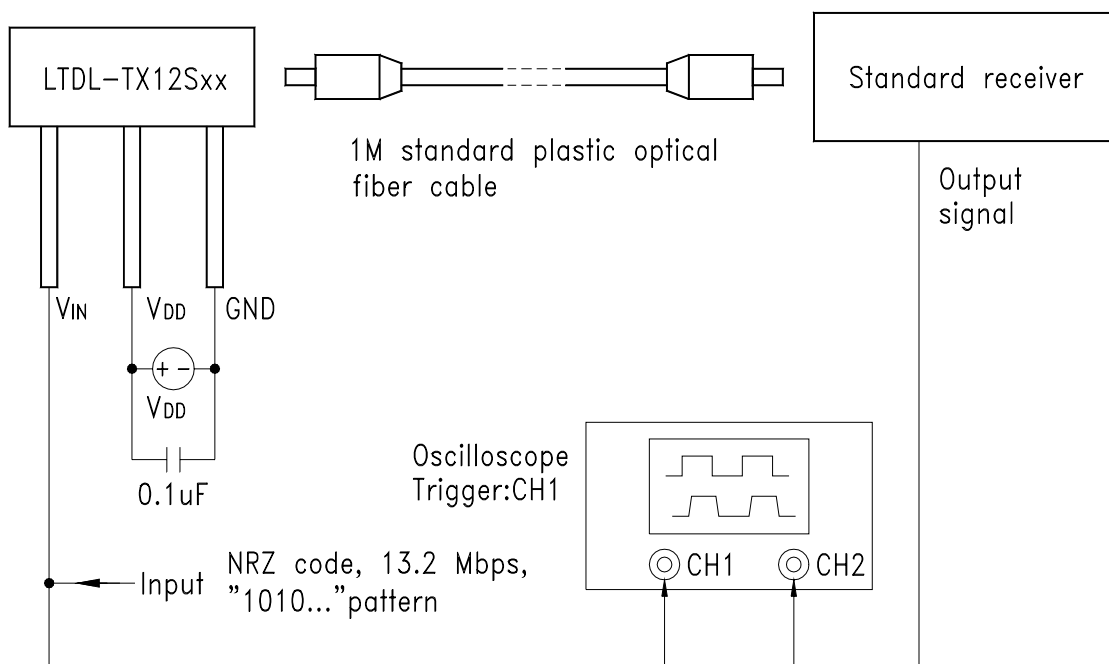


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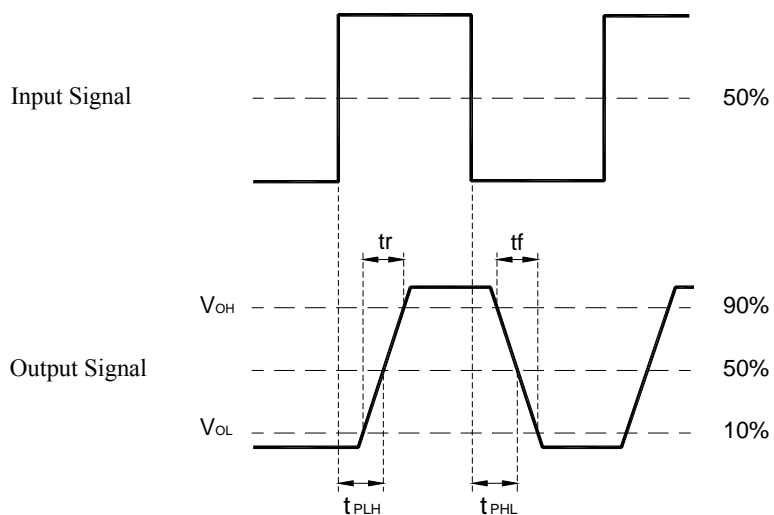
BNS-OD-C131/A4

***1 Measuring method of optical output coupling power**

***2 Power dissipation measuring method**


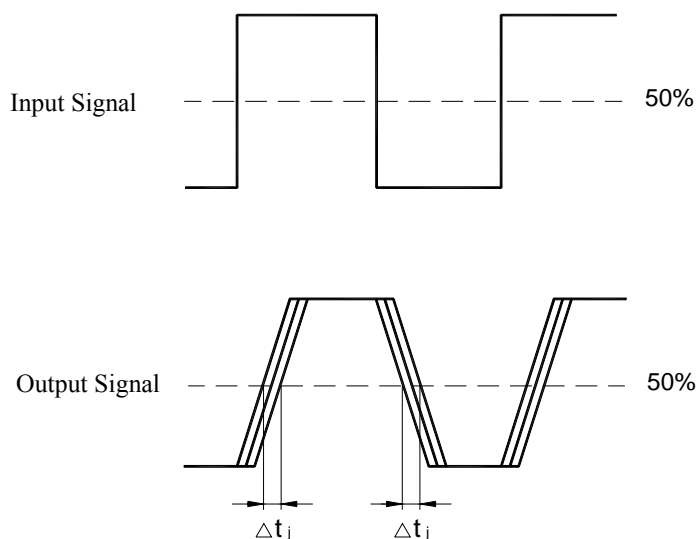
***3 Measuring pulse response**


Note :

(1)The impedance of the probe for the oscilloscope must be more than $1M\Omega$ and less than 10pf.

Rise and Fall Times and Pulse Width Distortion


$$\text{Pulse Width Distortion} = \Delta t_w = t_{PHL} - t_{PLH}$$

Jitter




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 - Office automation equipment
 - Telecommunication equipment 【 terminal 】
 - Test and measurement equipment
 - Industrial control
 - Audio visual equipment
 - Consumer electronics
 - (ii) Measure such as fail-safe function and redundant design should be taken to ensure reliability and safety when LITE-ON device are used for or in connection with equipment that requires higher reliability such as :
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 - Traffic signals
 - Gas leakage sensor breakers
 - Alarm equipment
 - Various safety devices, etc.
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