



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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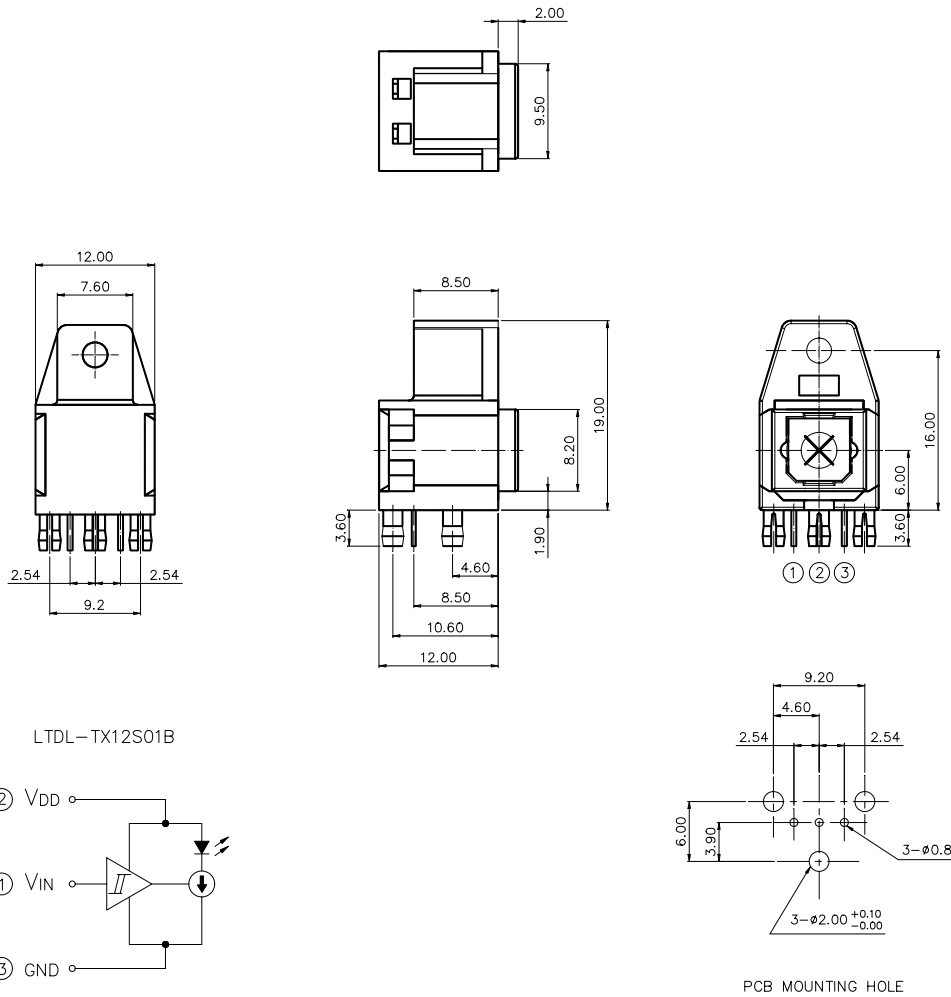
FEATURES

- * 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°C

| 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 °C to +70 °C | |
| Storage Temperature Range | -30 °C to +80 °C | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260°C for 5 Seconds | |

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

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

| 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 | λ _{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 | Δ t _w | -18 | - | +18 | ns | |
| Jitter | Δ t _j | - | 1 | 18 | ns | *2 |

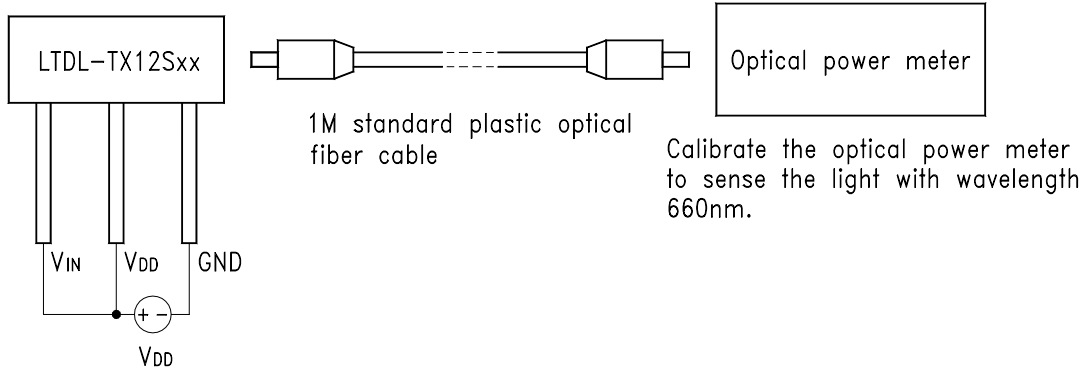


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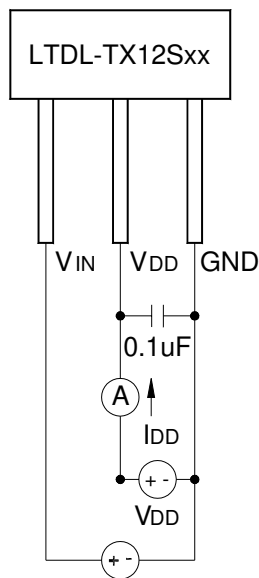
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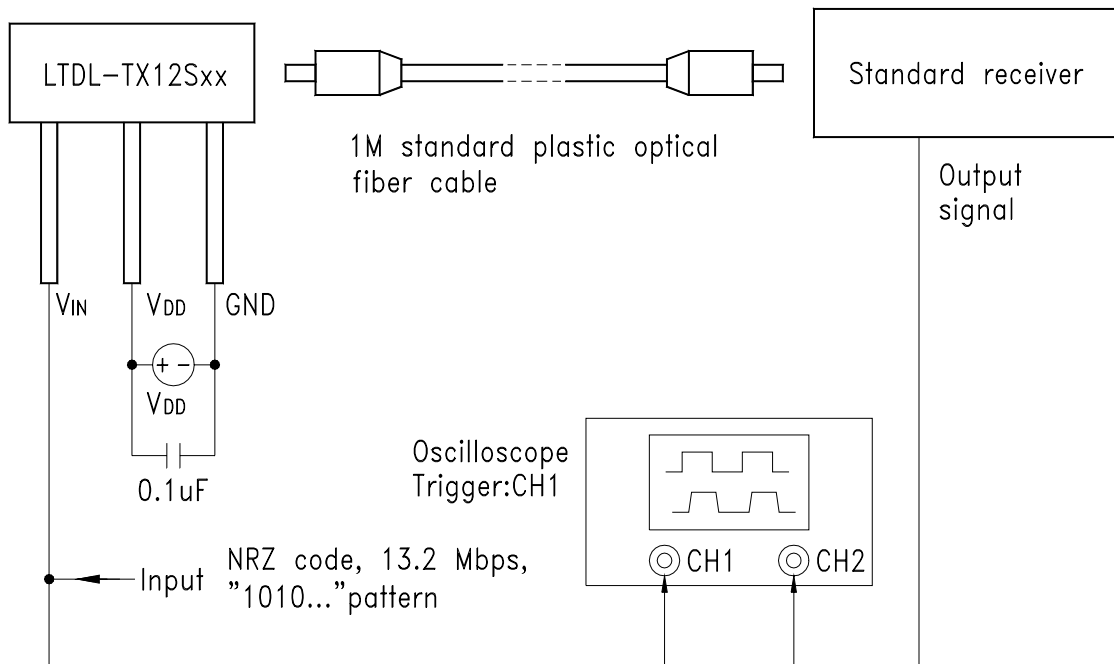
***1 Measuring method of optical output coupling power**



***2 Power dissipation measuring method**



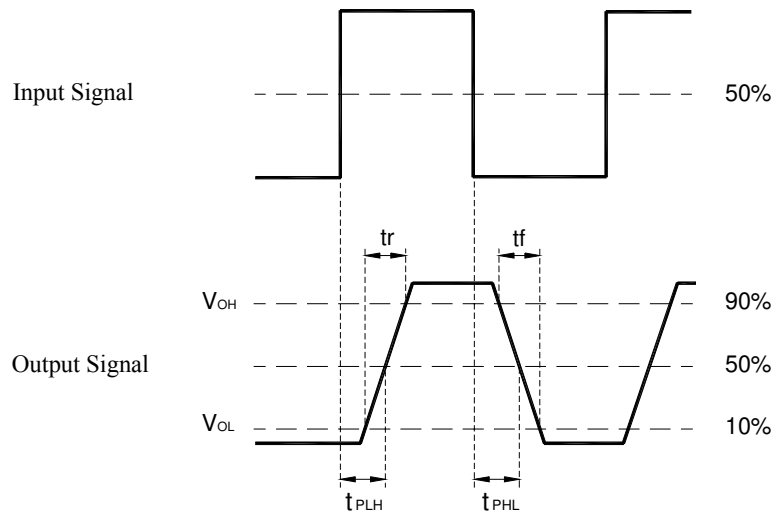
***3 Measuring pulse response**



Note :

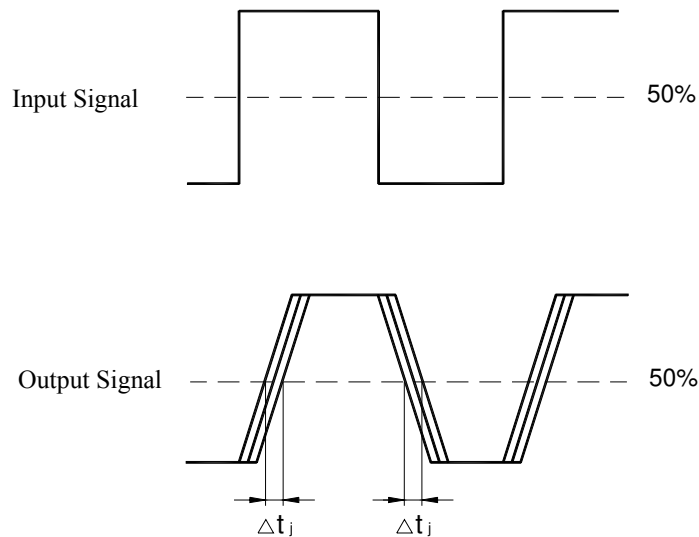
(1)The impedance of the probe for the oscilloscope must be more than 1MΩ and less than 10pf.

Rise and Fall Times and Pulse Width Distortion



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
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 - Traffic signals
 - Gas leakage sensor breakers
 - Alarm equipment
 - Various safety devices, etc.
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