LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

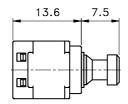
FEATURES

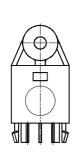
- * High speed transmission (13.2 Mbps, NRZ code)
- * Build-in LED driving circuit allows connecting directly to modulation IC for digital audio equipment.
- * Wide range of operating voltage from 3V to 5V
- * Same package as fiber optic receiving module LTDL-RX16P03

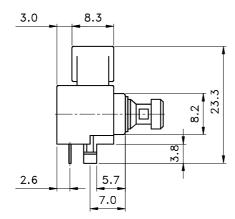
APPLICATIONS

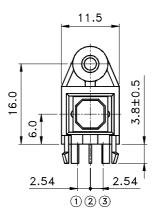
- * Digital audio system
- * CD & DVD players

PACKAGE DIMENSIONS

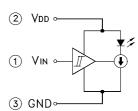








LTDL-TX12P03



NOTES:

- 1. All dimensions are in millimeters.
- 2. Tolerance is \pm 0.3 mm unless otherwise noted.

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ELECTRO-OPTICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Supply Voltage (VDD)	- 0.5 ∼ +7	V			
Input Voltage (VIN)	$-0.5 \sim V_{DD} + 0.5$	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				

ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Data Rate	Ts	_	_	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	Рс	-21	-17	-15	dBm	*1
Current Consumption	Idd	_	6	8	mA	
High Level Input Voltage	VIH	2	_	_	V	
Low Level Input Voltage	VIL	_	_	0.8	V	
"Low→High" propagation delay time	$t_{ ext{PLH}}$	_	_	166	ns	
"High→Low"propagation delay time	$t_{ m PHL}$	_	_	155	ns	*2
Pulse Width Distortion	Δt_{W}	-18	_	+18	ns	
Jitter	$\Delta t_{ m j}$		1	18	ns	*2

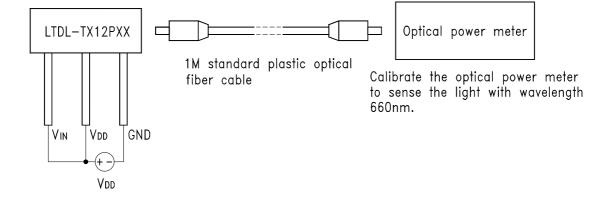
Part No.: LTDL-TX12P03 DATA SHEET Page: 2 of 4



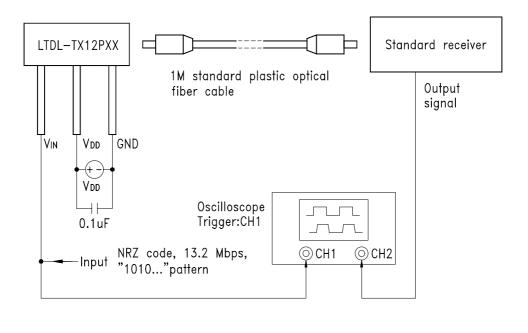
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*1 Measuring method of fiber coupling optical power output



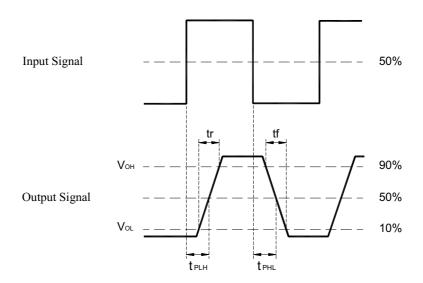
*2 Measuring method of pulse response and jitter



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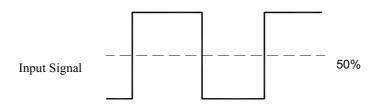
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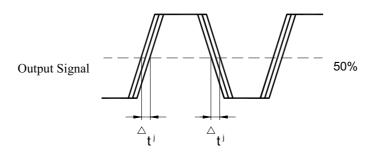
Rise and Fall Times and Pulse Width Distortion



Pulse Width Distortion= $\triangle tw = t_{PHL} - t_{PLH}$

Jitter





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