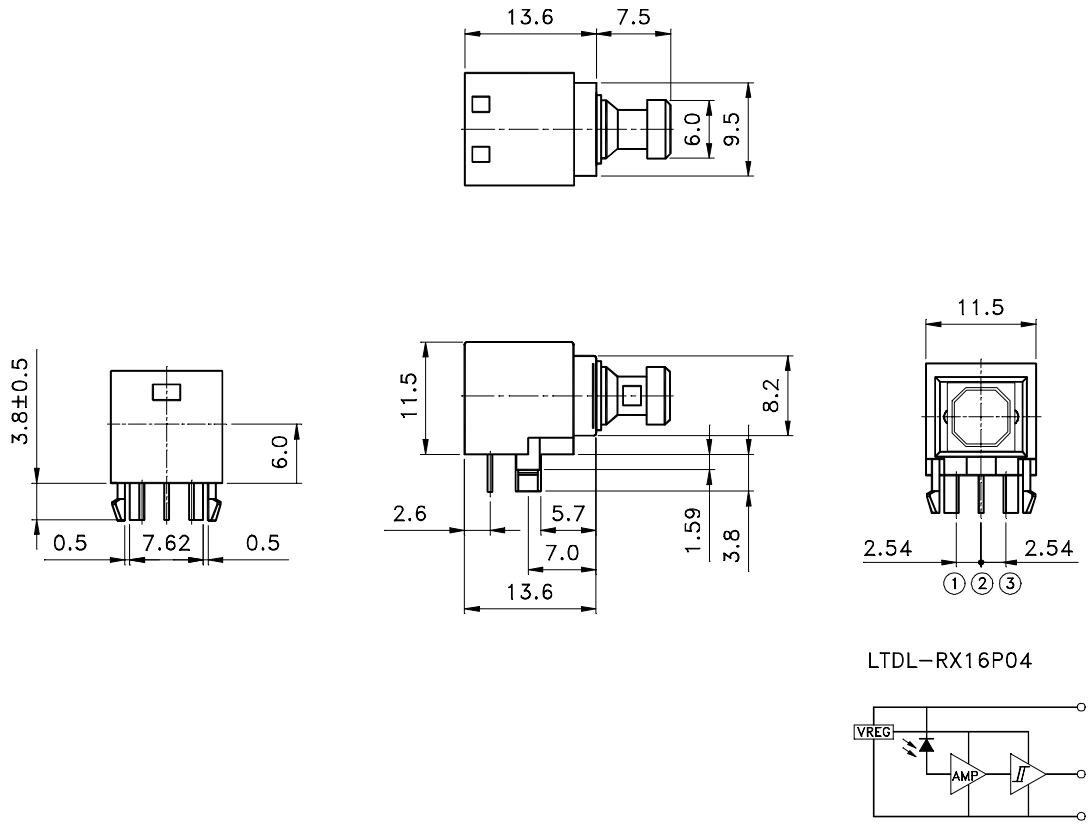
FEATURES

* High speed transmission （16 Mbps , NRZ code）
* TTL compatible
* Same package as fiber optic transmiting module LTDL-TX12P04

APPLICATIONS

* Digital audio system
* CD & DVD players

PACKAGE DIMRNSIONS



LTDL−RX16P04

NOTES:
1. All dimensions are in millimeters.
2. Tolerance is ±0.3 mm unless otherwise noted.

ELECTRO－OPTICAL CHARACTERISTICS

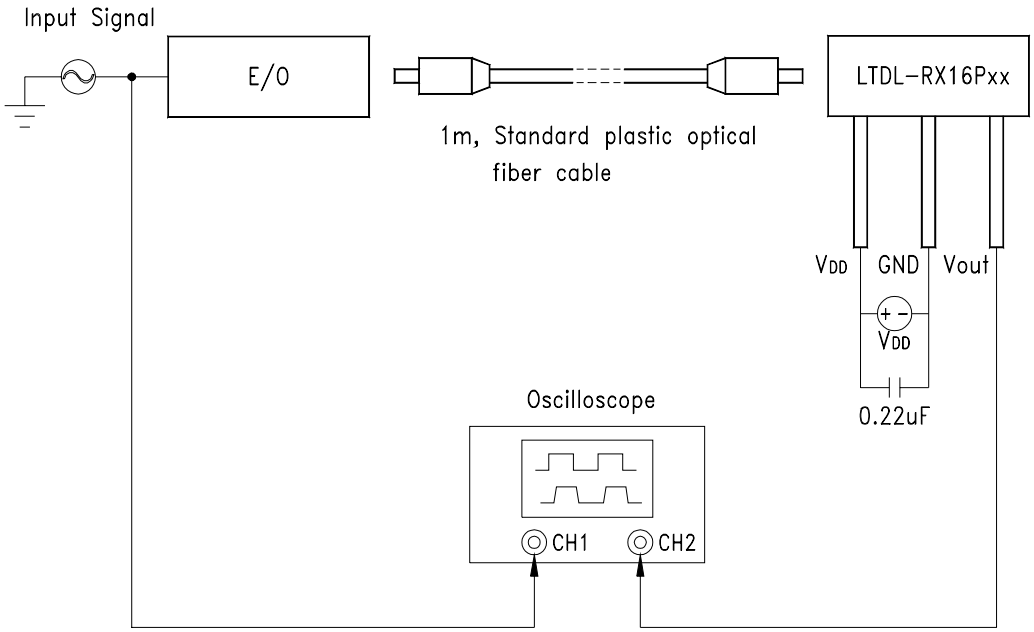
ABSOLUTE MAXIMUM RATINGS AT Ta=25℃

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V_{DD})	6.0	V
Output Voltage (V_O)	V_{DD} +0.3	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	

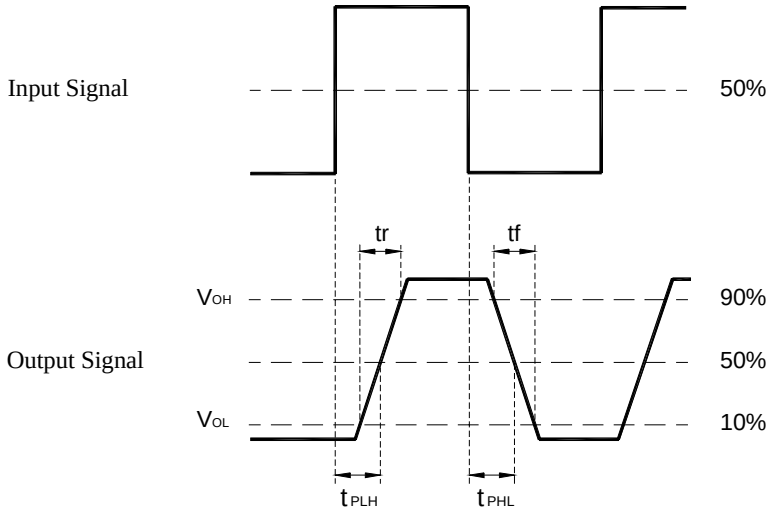
ELECTRICAL OPTICAL CHARACTERISTICS AT Ta=25℃

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Data Rate	Ts	0.1	—	16	Mbps	NRZ signal
Operating Voltage	V_{DD}	4.75	—	5.25	V	
Peak Sensitivity Wavelength	λ_{Peak}	—	650	—	nm	
Input Sensitivity	Pi	-24	—	-14	dBm	
Dissipation current	I_{DD}	2	7	10	mA	NRZ signal
High level output voltage	V_{OH}	2.4	4.8	—	V	Dc Light , I_{OH} = -20 μA
Low level output voltage	V_{OL}	—	0.2	0.4	V	Dark , I_{OL} = 0.6mA
“Low→High”propagation delay time	t_{PLH}	—	—	166	ns	*1
“High→Low”propagation delay time	t_{PHL}	—	—	166	ns	
Pulse width distortion	Δt_W	-18	—	+18	ns	
Jitter	Δtj	—	1	5	ns	*1
Rise Time	t_r	—	8	20	ns	*1
Fall Time	t_f	—	8	20	ns	*1

***1 Setup of Measuring System**



Rise and Fall Times and Pulse Width Distortion



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

Jitter