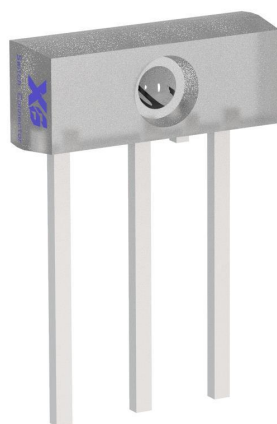


Photo-link Light Transmitter Unit PLT232/L5 SERIES



Features

- High speed signal transmission (25Mbps NRZ Signal)
- TTL interface compatible
- +3~+5V single power source
- The product itself will remain within RoHS compliant version.
- Compliance with EU REACH
- Compliance Halogen Free(Br<900ppm,Cl<900ppm,Br+Cl<1500ppm)

Description

The opto-electrical component is assembled with a 660nm AlGaInP LED and a driver IC. It transforms the electrical signal to optical signal and be transmitted by 1mm diameter plastic optical fiber.

The component is operated at +3~+5V and has good performance at low dissipation current, steady light output and efficient light coupling.

Applications

- Digital audio equipment
- CD player
- DVD player

Device Selection Guide

Chip		Operating Voltage (Vcc)	Dissipation Current (mA)		Fiber Coupling Light Output (dBm)		
Material	λ_p (nm)		Typ.	Max.	Min.	Typ.	Max.
AlGaInP	660	+3.0~5.0	5.5	10	-21	---	-15

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Supply Voltage	Vcc	-0.5 to 7	V
DC Input Voltage	Vin	-0.5 to Vcc+0.5	V
Storage Temperature	Tstg	-40 to 85	°C
Operating Temperature	Topr	-40 to 85	°C
Soldering Temperature	Tsol	260*	°C
Human Body Model ESD	HBM	3K	V
Machine Model ESD	MM	300	V

Notes: Soldering time ≤ 10 seconds.

Recommended Operating Conditions

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Supply Voltage	Vcc	-	2.7	3.0	5.50	V

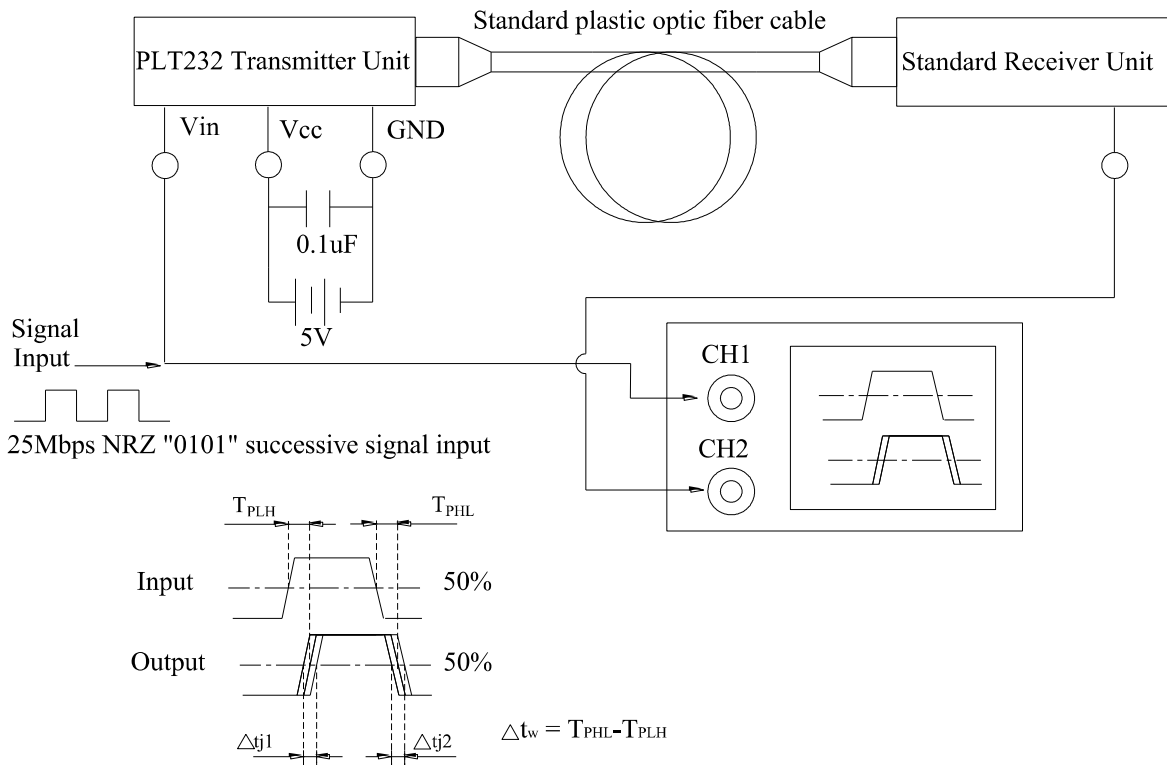
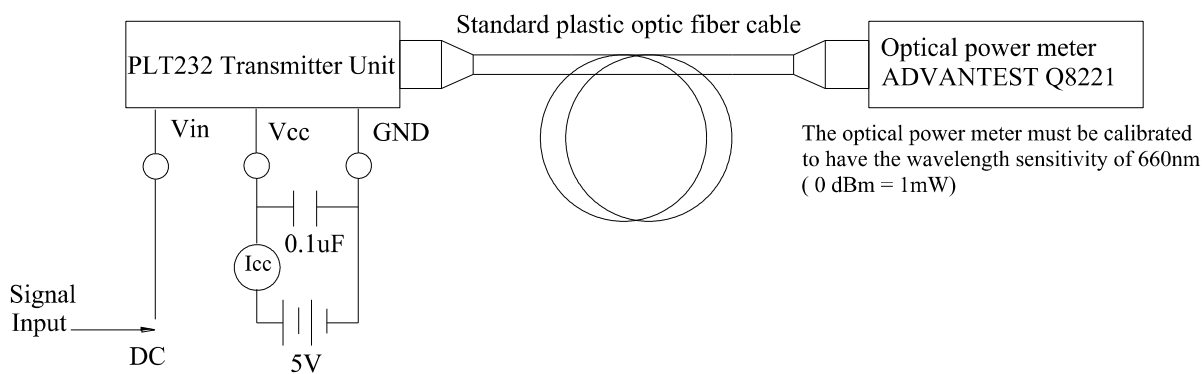
Electro-Optical Characteristics (Ta=25°C, Vcc=5.0V, 25Mbps)

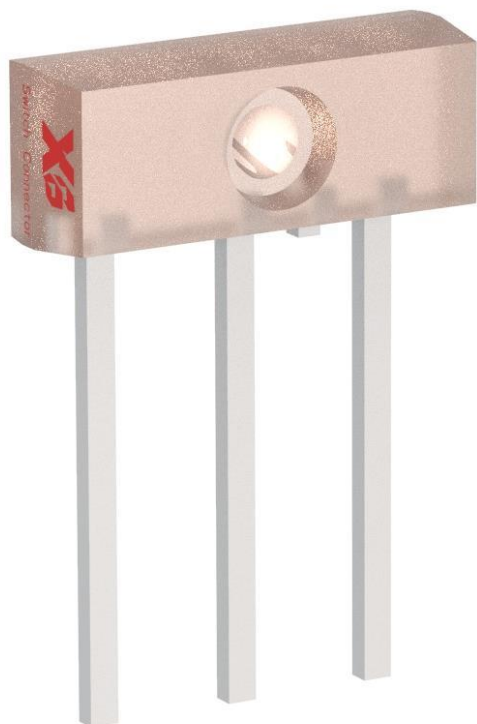
Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Peak Emission Wavelength	λ_p		640	660	680	nm
Transmission Rate		NRZ Signal	DC	-	25	Mbps
Fiber Coupling Output Power	Pf	* Measuring Method 1	-21	-	-15	dBm
Dissipation Current	Icc	* Measuring Method 1	3	-	10	mA
High Level Input Voltage	Vih		2	-	-	V
Low Level Input Voltage	Vil		-	-	0.8	V
Rise Time	Tr	[1] ; *2 NRZ Code VFLED = 2.0V	-	15	20	ns
Fall Time	Tf		-	15	20	ns
Low to High Delay Time	tpLH	* Measuring Method 2	-	-	100	ns
High to Low Delay Time	tpHL	* Measuring Method 2	-	-	100	ns
Pulse Width Distortion	Δtw	* Measuring Method 2	-15	-	15	ns
Jitter	Δtj	* Measuring Method 2	-	1.5	15	ns

*Note 1 : All Plastic Optical Fiber (980/1000um)

If it only has Vcc power-off, LED will sure to be no output power.

Vcc	Vin	LED Condition
2.7~5.5V	High	ON
2.7~5.5V	Low	OFF
2.7~5.5V	FLOATING	OFF
FLOATING	0~Vcc	OFF





- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number
- X: Month
- Reference: Identify Label Number

Packing Quantity Specification

1. 500 or 1000 pcs/bag
2. 8 bag/box

DISCLAIMER

1. Above specification may be changed without notice. XI BNANG will reserve authority on material change for above specification and reserve the right(s) on the adjustment of product material mix for the specification.
2. The product meets XI BNANG published specification for a period of twelve (12) months from date of shipment.
3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. XI BNANG assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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