Fibre Optic Transmitter Jack Multicomp PRO



Features

RoHS Compliant

- High speed signal transmission (16Mbps, NRZ signal)
- · Input TTL compatible
- +3 to +5V power source

Descriptions

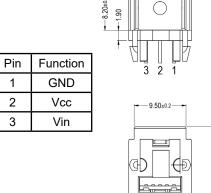
The light transmitting unit is a standard-package product with connector and opto-electric component packaged with LED and drive IC. The function of unit changes the electric signal into light signal and be transmitted by plastic fiber.

The unit is operated at single+3V to +5V and the input signal is TTL compatible. This has a maximum operating speed of 16 Mbps. The light signal is coupled into plastic fiber by connector. The unit has high performance at low dissipation current, steady light output and efficient light coupling.

Applications

- Audio equipment
- DVD player
- · PC, Notebook
- · Sound card

Diagram



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Description	Material	UL
Body	Black PBT	UL94 V-0 E323954
Rear Body	Black PBT	UL94 V-0 E323954
Cover	Black PBT	UL94 V-0 E323954
IC	Bright TIN Plate	n/a

Dimensions : Millimetres

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Specification

С	hip		Dissipation	Fiber Cou	pling Light Out	nut (dBm)
IC (dBm)		Operating Voltage	Current(mA)	1 iboi Godpinig Light Gatpat (d.		.put (ubiii)
Material LED λp(nm)	(Vcc)	Тур.	Min.	Тур.	Max.	
Si	650	2.7 to 5.5	5.5	-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		
Power Dissipation	Р	120	mW	
Storage Temperature	Tstg	-30 to +80	°C	
Operating Temperature	Topr	-20 to +70	°C	
Soldering Temperature	Tsol	260*	°C	

^{*} Soldering time ≤ 5s / 2times.

Electro-Optical Characteristics

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Operating Voltage	Vcc	-	2.7	-	5.5	V
Peak Detective Wavelength	λр	-	640	-	670	nm
Transfer Speed		NRZ signal	DC	-	16	Mbps
Receiving Distance		Using APF	0.2	-	20	m
Pulse Width Distortion	∆tw	16Mbps NRZ Signal	-25	-	25	ns
Fiber Coupling Light Output	Pf	*1	-21	-17	-15	dBm
Dissipation Current	Icc	*2	-	5	10	mA
High Level Input Voltage	VIH		2	-	-	٧
Low Level Input Voltage	VIL		-	-	0.8	٧
Rise Time	tr	*3	-	30	40	ns
Fall Time	tf	*3	-	20	30	ns
Low → High propagation delay time	tрLн	*3	-	-	100	ns
High → Low propagation delay time	t _{PHL}	*3	-	-	100	ns
Jitter	∆tj	*3	-	1.5	15	ns

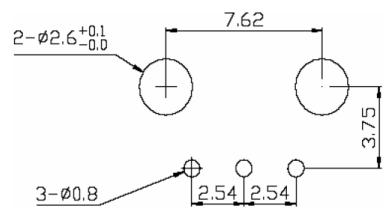
Light transmitting unit satisfies EIAJ CP-1201 digital audio interface standard.



^{*}Don't touch flux soldering and white Gas

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PCB Layout For Electrical Circuit



Notes:

1. Unit: mm

Unspecified tolerance: ±0.3mm
Substrate Thickness:1.6mm

Part Number Table

Description	Part Number	
Fibre Optic Transmitter Jack, 16 Mbps, -21dBm, 5.5V, 5.5mA	MP-FCR6842031T	

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