

Fibre Optic Receiver Jack multicomp^{PRO}

RoHS
Compliant



Features

- High PD sensitivity for red light
- High speed up to 16 Mbps
- Low power consumption and current dissipation
- +3 to +5V power source

Descriptions

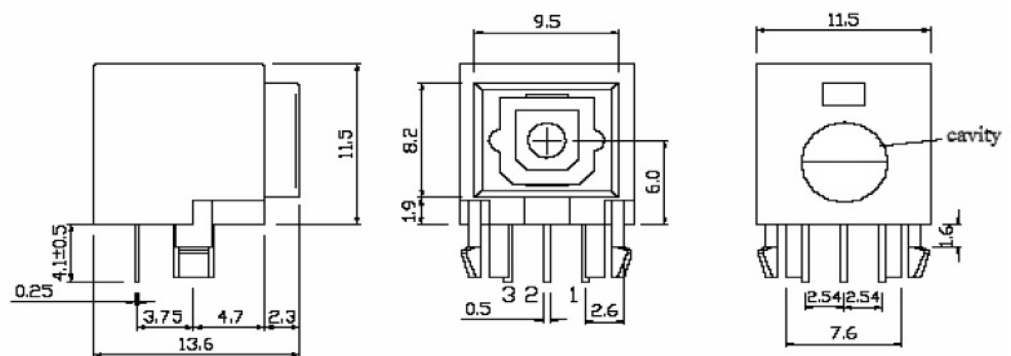
The light receiving unit is a standard-package product with connector and opto-electric component packaged with PD and I/V amplifier IC. The function of unit changes the light signal into electric signal.

The unit is operated at +3 to +5V and the input signal is TTL compatible. This product has a maximum operating speed of 16 Mbps.

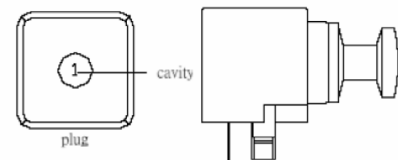
Applications

- Audio equipment
- Digital optical data link
- MD
- Sound card

Diagram



Pin	Function
1	Vout
2	GND
3	Vcc



Notes : General Tolerance:±0.2mm

Dimensions : Millimetres

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sg.element14.com/b/multicomp-pro

multicomp^{PRO}

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Specification

Chip		Operating Voltage (Vcc)	Dissipation Current(mA)	Fiber Coupling Light Output (dBm)		
IC Material	LED λ (nm)		Typ.	Min.	Typ.	Max.
Si	650	2.7 to 5.5	6.5	-24	-	-14.5

Absolute Maximum Ratings(Ta = 25°C)

Parameter	Symbol	Rating	Unit
Supply Voltage	Vcc	5.5	V
Storage Temperature	Tstg	-30 to +80	°C
Operating Temperature	Topr	-20 to +70	°C
Soldering Temperature	Tsol	260*	°C

* Soldering time \leq 5s / 2times.

*Don't touch flux soldering and white Gas

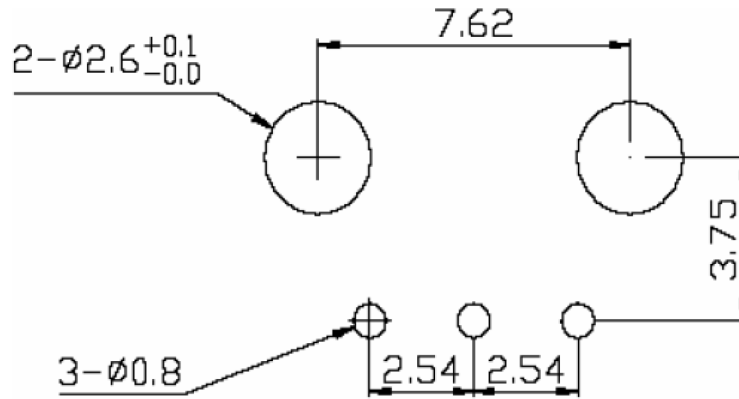
Electro-Optical Characteristics

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Operating Voltage	Vcc	-	2.7	-	5.5	V
Peak Detective Wavelength	λ p	-	-	650	-	nm
Transfer Speed		NRZ signal	0.1	-	16	Mbps
Receiving Distance		Using APF	0.2	-	20	m
Pulse Width Distortion	Δ tw	16Mbps NRZ Signal	-20	-	20	ns
Input Light power	Pi	*1	-24	-	-14.5	dBm
Dissipation Current	Icc	*2	-	-	10	mA
High Level Output Voltage	V _{OH}		2.4	-	-	v
Low Level Output Voltage	V _{OL}		-	-	0.4	v
Rise Time	t _r	*3	-	-	25	ns
Fall Time	t _f	*3	-	-	25	ns
Low \rightarrow High propagation delay time	t _{PLH}	*3	-	-	100	ns
High \rightarrow Low propagation delay time	t _{PHL}	*3	-	-	100	ns
Jitter	Δ tj	*3	-	1.5	15	ns

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

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PCB Layout For Electrical Circuit



Notes:

- 1. Unit: mm
- 2. Unspecified tolerance: ± 0.3 mm
- 3. Substrate Thickness: 1.6mm

Part Number Table

Description	Part Number
Fibre Optic Receiver Jack, 16 Mbps, -24dBm, 5.5V, 6.5mA	MP-FCR6842032R

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