

# KFO-RX16CA

**Features**

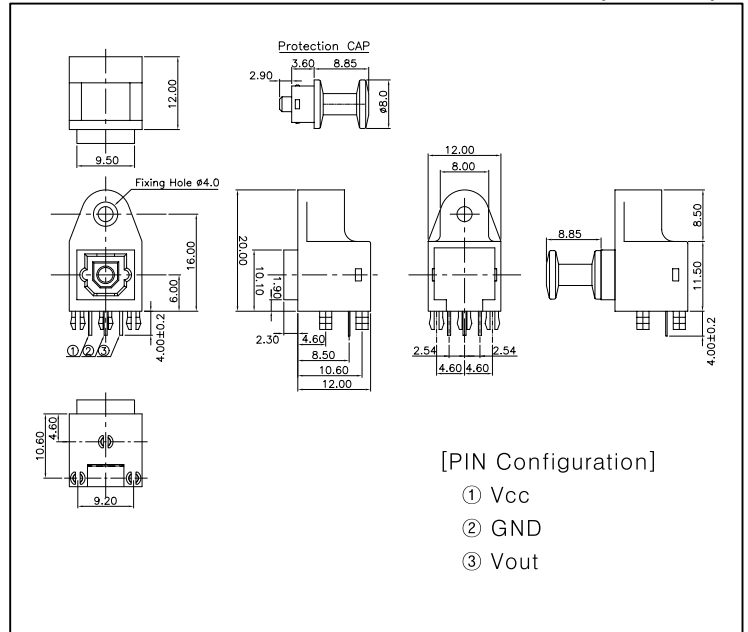
- High PD Sensitivity Optimized for Red Light
- Data Rate between 100Kbps and 16Mbps
- Low Power Consumption for Extended Battery Life
- Built-in Threshold Control for Improved Noise Margin
- 3 pin Cap Housing

**Applications**

- Digital Optical Data-Links
- Dolby AC-3 Digital Audio Interface
- Amplifier

**Dimensions**

(Unit : mm)



**Absolute Maximum Ratings**

[Ta = 25 °C ]

Description	Symbol	Ratings	Condition
Power Supply Voltage	V <sub>CC</sub>	-0.5 ~ +7.0	-
Input Voltage	V <sub>IN</sub>	V <sub>CC</sub> +0.3V	-
Operating Temperature	T <sub>opr</sub>	-20 ~ +70 °C	-
Storage Temperature	V <sub>stg</sub>	- 30 ~ + 80 °C	-
Soldering Temperature *1	T <sub>sol</sub>	260 °C	-

\*1 : Soldering Time ≤ 10 seconds(At a distance of 1mm from the package)

**Electro-Optical Characteristics**

[V<sub>CC</sub>= 5V, Ta= 25 °C ]

Parameter	Symbol	Characteristics	Condition
Operating Supply Voltage	V <sub>CC</sub>	4.75 ~ 5.25 V	-
Peak Emission Wavelength	λ <sub>p</sub>	TYP 700 nm	-
Data Rate	T	TYP 16 Mbps	-
Optical Output Coupling with Fiber	P <sub>c</sub>	MIN -24 dBm	-
Current Consumption	I <sub>CC</sub>	MAX 6.0 mA	-
High Level Output Voltage	V <sub>OH</sub>	MIN 2.4 V	-
Low Level Output Voltage	V <sub>OL</sub>	MAX 0.4 V	-
Propagation Delay Time ( H -> L )	t <sub>pHL</sub>	MAX 100 ns	-
Propagation Delay Time ( L -> H )	t <sub>pLH</sub>	MAX 100 ns	-
Rise Time	t <sub>r</sub>	MAX 15 ns	-
Fall Time	t <sub>r</sub>	MAX 15 ns	-
Pulse Width Distortion	△tw	MAX 15 ns	-
Jitter	△t <sub>j</sub>	MAX 25 ns	-