Fiber Optic Receiving Module

KFO-RX16CA

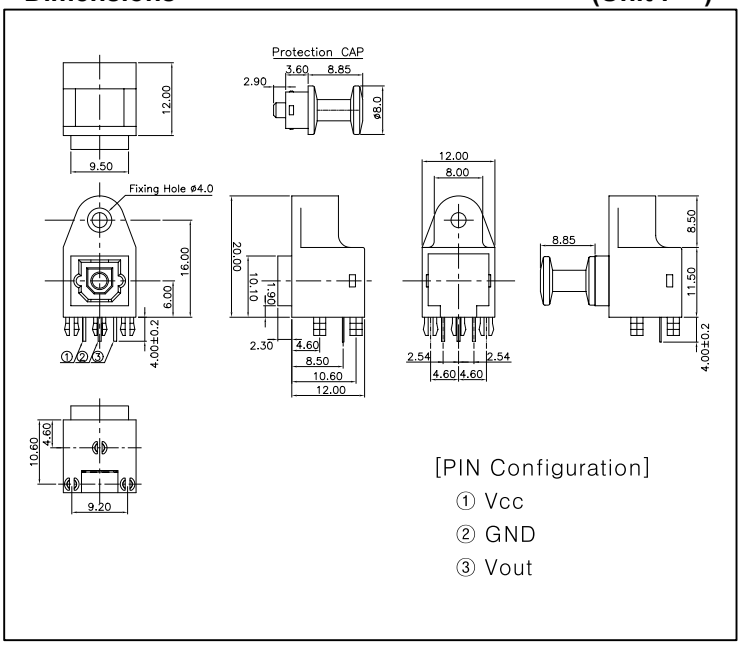
Features

- High PD Sensitivity Optimized for Red Light
- Data Rate between 100Kbps and 16Mbps
- Low Power Comsumption 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 : ㎜)



Absolute Maximum Ratings

[Ta = 25℃]

Description	Symbol	Ratings	Condition
Power Supply Voltage	V_{cc}	-0.5 ~ +7.0	-
Input Voltage	V_{IN}	Vcc+0.3V	-
Operating Temperature	T_{opr}	-20 ~ +70 ℃	-
Storage Temperature	V_{stg}	- 30 ~ + 80 ℃	-
Soldering Temperature *1	T_{sol}	260 ℃	-

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

Electro-Optical Characteristics

[Vcc= 5V, Ta= 25℃]

Parameter	Symbol	Characteristics	Condition
Operating Supply Voltage	Vcc	4.75 ~ 5.25 V	-
Peak Emission Wavelength	λp	TYP 700 nm	-
Data Rate	T	TYP 16 Mbps	-
Optical Output Coupling with Fiber	Pc	MIN -24 dBm	-
Current Consumption	I_{CC}	MAX 6.0 mA	-
High Level Output Voltage	V_{OH}	MIN 2.4 V	-
Low Level Output Voltage	V_{OL}	MAX 0.4 V	-
Propagation Delay Time (H -> L)	t_{pHL}	MAX 100 ns	-
Propagation Delay Time (L -> H)	t_{pLH}	MAX 100 ns	-
Rise Time	tr	MAX 15 ns	-
Fall Time	tr	MAX 15 ns	-
Pulse Width Distortion	△tw	MAX 15 ns	-
Jitter	△tj	MAX 25 ns	-