

## KFO-RX16CB

### Features

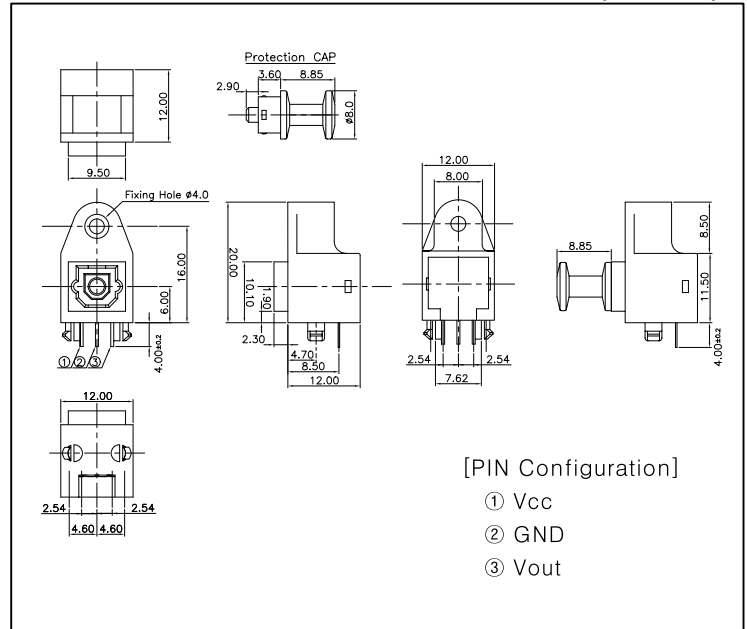
- High PD Sensitivity Optimized for Red Light
- Data Rate between 100Kbps and 16Mbps
- Low Power Consumption for Extended Battery Life
- Built-in Threshold Control for Improved Noise Margin
- 2 pin Cap Housing

### Applications

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

### Dimensions

(Unit : mm )



### Absolute Maximum Ratings

[Ta = 25℃ ]

| 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 ℃           | -         |
| Storage Temperature      | V <sub>stg</sub> | - 30 ~ + 80 ℃         | -         |
| Soldering Temperature *1 | T <sub>sol</sub> | 260 ℃                 | -         |

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

### Electro-Optical Characteristics

[V<sub>CC</sub>= 5V, Ta= 25℃]

| 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                             | △tj              | MAX 25 ns       | -         |