

## Fiber Optic Transmitting Module

**KODENSHI**

### KFO-TX13CB

#### Features

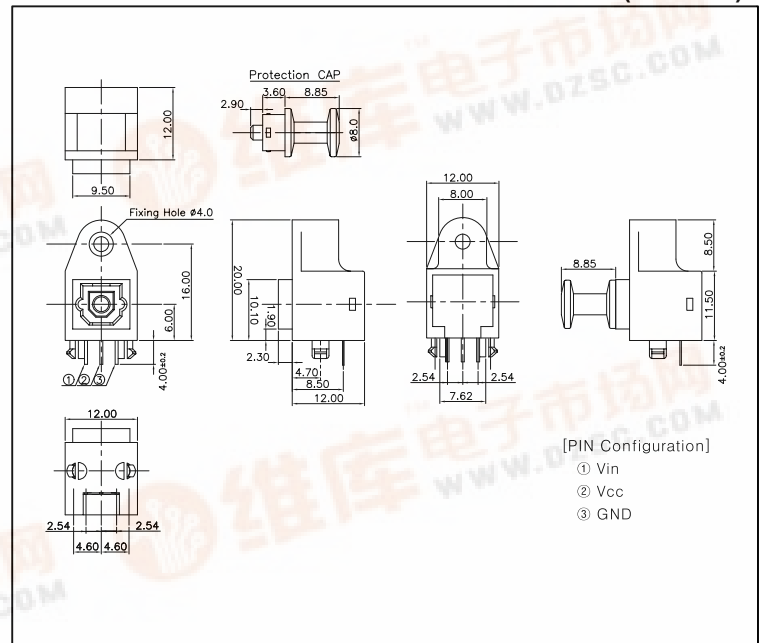
- Low Jitter Output
- Operating Voltage : 2.7 ~ 5.5V
- TTL Compatible Interface
- Signal Transmission Speed : 13.2Mbps
- 2 pin Cap Housing

#### Applications

- Digital Audio Equipment(CD,MD),  
STB, DVDP, etc

#### 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> +0.5V | -         |
| 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>  | 2.7 ~ 5.5 V     | -         |
| Peak Emission Wavelength           | λ <sub>p</sub>   | TYP 660 nm      | -         |
| Data Rate                          | T                | TYP 13.2 Mbps   | -         |
| Optical Output Coupling with Fiber | P <sub>c</sub>   | MIN -21 dBm     | -         |
| Current Consumption                | I <sub>CC</sub>  | MAX 8.0 mA      | -         |
| Input High Level                   | V <sub>IH</sub>  | MIN 2.0 V       | -         |
| Input Low Level                    | V <sub>IL</sub>  | MAX 0.8 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 30 ns       | -         |
| Fall Time                          | t <sub>f</sub>   | MAX 30 ns       | -         |
| Pulse Width Distortion             | △ tw             | MAX 15 ns       | -         |
| Jitter                             | △ tj             | MAX 25 ns       | -         |

