

## HK-SFP-1.25G Series Transceiver

### Features and Functions

- **Features**
  - a. Single Power Supply 3.3V
  - b. Small Form Factor Pluggable (SFP) MSA Compatible
  - c. Single Fiber Bi-Direction LC Connector
  - d. Hot Pluggable Capability
  - e. Compliant With ROHS Standard
- **Applications**
  - a. Fiber Channel
  - b. Gigabit Ethernet
  - c. Switch to Switch Interface
- **Absolute maximum ratings**

| Parameter                | Symbol          | Min. | Max.            | Unit |
|--------------------------|-----------------|------|-----------------|------|
| Storage Temperature      | T <sub>S</sub>  | -40  | +85             | °C   |
| Supply Voltage           | V <sub>CC</sub> | -0.5 | +3.6            | V    |
| Voltage at any Input Pin | V <sub>IN</sub> | 0    | V <sub>CC</sub> | V    |
| Power supply current     | I <sub>CC</sub> | -    | 300             | mA   |

### Recommended Operating Conditions

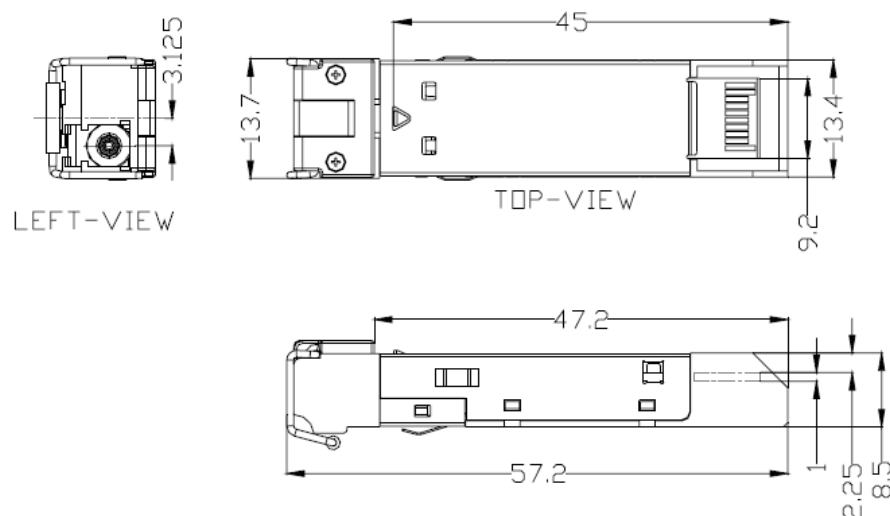
| Parameter             | Symbol           | Min. | Typ  | Max. | Unit |
|-----------------------|------------------|------|------|------|------|
| Operating Temperature | T <sub>op1</sub> | 0    | -    | +70  | °C   |
|                       | T <sub>op2</sub> | -40  | -    | +85  |      |
| Supply Voltage        | V <sub>CC</sub>  | 3.1  | 3.3  | 3.5  | V    |
| Data Rate             | -                | -    | 1250 | -    | Mb/s |

### Ordering Information

| Part No.             | Wavelength (nm)      | Temp. (°C) | TX Power (dBm) | RX Sens(Max) (dBm) | Distance (km) |
|----------------------|----------------------|------------|----------------|--------------------|---------------|
| HK-SFP-1.25G-20-1310 | TX1310nm FP/RX1550nm | 0 to 70    | -6 to -1       | -21                | 20            |
| HK-SFP-1.25G-20-1550 | TX1550nmDFB/RX1310nm | 0 to 70    | -9 to -1       | -21                | 20            |



## Mechanical(Units in mm)



## Operating Conditions

| Part No.              | HK-SFP-1.25G-20-1310       | HK-SFP-1.25G-20-1550 |
|-----------------------|----------------------------|----------------------|
| Fiber                 |                            |                      |
| Fiber type            | SMF, Single fiber, 9/125um |                      |
| Connector             | LC                         |                      |
| Connector quantity    | 1                          |                      |
| Distance              | 0~20km                     |                      |
| Wavelength            | Tx1310nm/Rx1550nm          | Tx1550nm/Rx1310nm    |
| TX Power              | -9~-1dBm                   |                      |
| RX Sens (Max. )       | -21dBm                     |                      |
| Environment           |                            |                      |
| Operating temperature | 0~70℃                      |                      |
| Storage temperature   | -40~85℃                    |                      |
| Relative humidity     | 30~80%                     |                      |
| Power                 |                            |                      |
| Power supply voltage  | DC 3.3V                    |                      |

Distributed by



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