

SFP-10G-EZR-SY

10GBASE-EZR SFP+, 1550 nm, 100 km SMF TRANSCEIVER

1. FEATURES AND SPECIFICATIONS

- ▶ Form Factor: **SFP+**
- ▶ Operating Data Rate: **10G**
- ▶ Protocol(s): **10GE, FC**
- ▶ Fiber Type: **SMF**
- ▶ Technique: **EZR**
- ▶ Lane Count: **1**
- ▶ Wavelength(s)/Channel(s): **1550 nm**
- ▶ Nominal Distance: **100 km**
- ▶ Nominal Power Budget: **26 dB**
- ▶ Connector: **LC duplex**
- ▶ Temperature Range: **0 to +70°C, -40 to +85°C**
- ▶ Compliance: **SFP+ MSA, SFF-8431, IEEE 802.3ae**
- ▶ Monitoring: **Digital diagnostic monitor interface**
- ▶ Laser Type: **EML**
- ▶ Receiver Type: **PIN**
- ▶ Power Dissipation: **1.5 W**

2. ABSOLUTE CHARACTERISTICS

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------|------------|------|------|------|------|
| SIGNAL INPUT VOLTAGE | V_{IN} | 0.2 | - | 0.7 | V |
| POWER SUPPLY VOLTAGE | V_{CC} | -0.5 | - | 4 | V |
| OPERATING TEMPERATURE | T_{CASE} | 0 | - | +70 | °C |
| STORAGE TEMPERATURE | T_S | -40 | - | +85 | °C |

3. ELECTRICAL OPERATING CONDITIONS

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|----------------|----------|------|------|------|------|
| SUPPLY CURRENT | I_{CC} | - | - | 0.5 | A |
| SUPPLY VOLTAGE | V_{CC} | 3.13 | 3.3 | 3.47 | V |

4. OPTICAL CHARACTERISTICS

RECEIVER

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|---------------------|-------------|------|------|------|------|
| OPTICAL WAVELENGTH | λ_C | 1260 | - | 1600 | nm |
| LOS HYSTERESIS | LOS_H | 0.5 | - | 0 | dB |
| LOS ASSERT | LOS_A | -34 | - | - | dBm |
| LOS DE-ASSERT | LOS_D | - | - | -25 | dBm |
| RX MAX. SENSITIVITY | P_{MIN} | - | - | -25 | dBm |
| DAMAGE THRESHOLD | P_{MAX} | -6 | - | - | dBm |

TRANSMITTER

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT |
|-----------------------------|-----------------|------|------|------|------|
| OPTICAL WAVELENGTH | λ_C | 1530 | 1550 | 1565 | nm |
| OPTICAL EXTINCTION RATIO | ER | 8.2 | - | - | dB |
| SIDE MODE SUPPRESSION RATIO | SMSR | 30 | - | - | dBm |
| SPECTRAL WIDTH | $\Delta\lambda$ | - | - | 0.3 | dBm |
| OPTICAL TRANSMIT POWER | P_{OUT} | 1 | - | 5 | dBm |

5. ORDERING INFORMATION

| PART NAME | DESCRIPTION |
|------------------|--|
| SFP-10G-EZR-SY | 10GBase EZR SFP+, 1550 nm, 100 km over SMF, LC duplex, speedy |
| SFP-10G-EZR-I-SY | 10GBase EZR SFP+, 1550 nm, 100 km over SMF, LC duplex, Industrial temperature -40 to +85°C, speedy |

6. WARNINGS AND SECURITY INFORMATION



CAUTION: Class 1 visible laser radiation present. Long term viewing of the laser can be harmful to the human eye.



This equipment has been tested according to European legislation and has been found safe, non-intervening with other electronic devices and is not subject to interference from other electronic devices



Hazardous Goods; our products are fully compliant with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Laser Class 1

Our products comply with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007



Only (dis)connect the transceivers in an ESD Protected Area while using certified equipment and taking all necessary precautions as specified in IEC 61340-5-1.

7. DISCLAIMER AND LEGAL NOTICES

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