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### 155Mbps SM SFP Optical Transceiver, 20km Reach

#### **Features**

- Up to 155Mbps data links
- 1310nm FP laser and photo PIN detector for 20km transmission
- Compliant with SFP MSA and SFF-8472 with Duplex LC receptacle
- Digital Diagnostic Monitoring: Internal Calibration or
- External Calibration Compatible with SONET Compatible
- with RoHS +3.3V single power supply
- Operating case temperature:
- Standard :0 to +70° C
- Industrial: -40 to +85° C

#### **Applications**

- SDH and SONET system
- Fiber Channel
- Switch to Switch interface
- Switched backplane applications
- Router/Server interface
- Other optical transmission systems

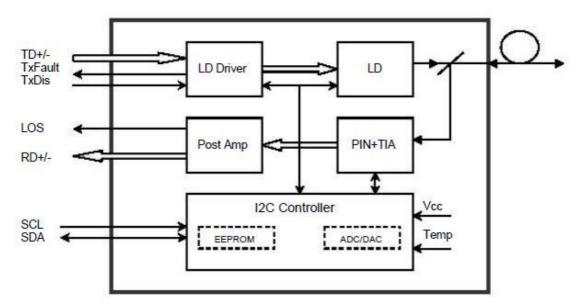
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#### **Description**

The SFP transceivers are high performance, cost effective modules supporting dual data-rate of 155Mbps and 20km transmission distance with SMF.

The transceiver consists of three sections: a FP laser transmitter, a PIN photodiode integrated with a transimpedance preamplifier (TIA) and MCU control unit. All modules satisfy class I laser safety requirements.

The transceivers are compatible with SFP Multi-Source Agreement (MSA). For further information, please refer to SFP MSA.



#### **Absolute Maximum Ratings**

Parameter	Symbo I	Min	Max	Unit
Supply Voltage	Vcc	0	4	V
Storage Temperature	Ts	-40	+85	°C
Operating Humidity	-	5	85	%

#### **Recommended Operating Conditions**

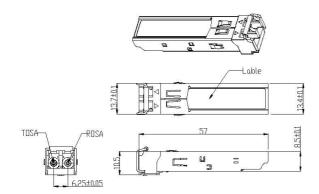
Parameter		Symbol	Min	Typical	Max	Unit
Operating Case Temperature	Standard	Тс	0		+70	°C
	Industrial		-40		+85	°C
Power Supply Voltage		Vcc	3.13	3.3	3.47	V
Power Supply Current		Icc			300	mA
Data Rate				155		Mbps

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#### **Diagnostics**

Parameter	Range	Unit	Accuracy	Calibration
Tomporeture	0 to +70	°C	±3°C	Internal / External
Temperature	-40 to +85	O		
Voltage	3.0 to 3.6	V	±3%	Internal / External
Bias Current	0 to 100	mA	±10%	Internal / External
TX Power	-14 to -8	dBm	±3dB	Internal / External
RX Power	-24 to -3	dBm	±3dB	Internal / External

#### **Mechanical Dimensions**



### **Ordering information**

Part Number	Product Description
IKSHU 100SM-20K	155Mbps, 1310nm,LC, 20km, 0°C ~ +70°C, with DDM

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