

## SFP-10G-T-5-5DB-C

MSA and TAA Compliant 10GBase-TX SFP+ Loopback with 5.5dB Attenuation

### Features

- SFF-8431 and SFF-8432 compliant module
- The module is composed of a high-frequency printed circuit board (PCB) designed with controlled impedance traces to loop the high speed lane RX to TX lane
- 5.5dB attenuation
- EEPROM per SFP+ MSA; customization is available
- Compatible with existing 10G SFP+ connector ports
- Backward compatible with 1G SFP
- Enables system communication over I2C bus
- Custom mechanical solutions with and without EMI springs fingers
- Available as a push to release design to ease releasing the loopback from the port
- RoHS compliant



### Product Description

This MSA compliant SFP+ loopback provides a simple solution to loopback testing on individual ports with the use of a cable assembly. It has 5.5dB of attenuation and is compatible with existing 10G SFP+ and 1G SFP ports. All of our transceivers are built to comply with Multi-Source Agreement (MSA) standards and are uniquely serialized and tested for data-traffic and application to ensure seamless network integration. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Prolabs' loopback transceivers are RoHS compliant and lead-free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products.



### Mechanical Performance

Parameter	Min.	Typ.	Max.	Unit
Insertion Force			40	N
Withdrawal Force			11.5	N
Retention	90			N
Mating Cycles	500			

### Electrical Performance

- Differential Impedance:  $100\Omega \pm 10\Omega$ .

### Environmental Specifications

- Thermal Shock: EIA 364-32, Condition 1.25 cycles, -55°C to 85°C.
- Service life expectancy to exceed 5 years.

### Material Specifications

- Nickel-plated zinc die cast shells and latching mechanism parts.
- Low-loss PCB with gold fingers for durability.
- Integral metal pull tab.

## **About ProLabs**

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 90 optical switching and transport platforms.

## **Complete Portfolio of Network Solutions**

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 400G while providing innovative solutions that increase network efficiency. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

## **Trusted Partner**

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day.

## **Contact Information**

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