TC4001

Wavelength Division Multiplexer (WDM)

User's Manual

1. Description

The TC4001-1 (single fiber two-channel) and TC4001-2 (dual fiber two-channel) Wavelength Division Multiplexers allow for the combination of 1310nm and 1550nm fiber optic wavelengths over one Single Mode fiber. The TC4001-1 and TC4001-2 are passive devices and require no power.

2. Optical Connectors

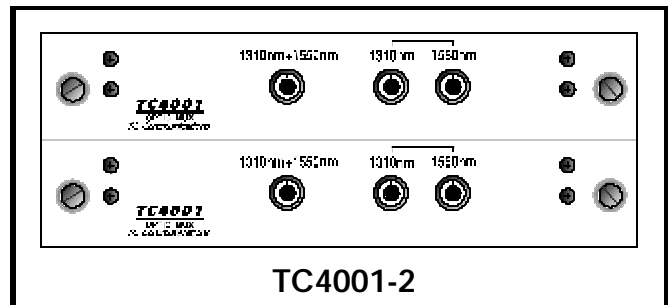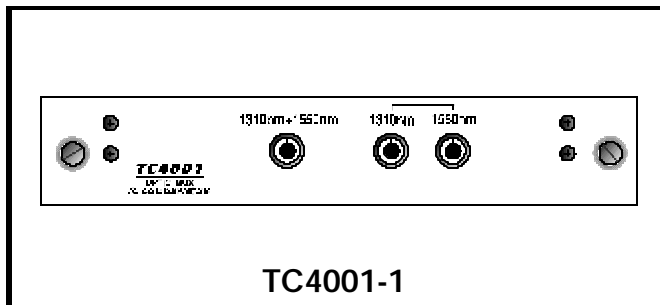Optical Connectors can be specified as either ST or FC *{ST is a trademark of AT&T}.*

3. Isolation and Insertion Loss

The TC4001-1 and TC4001-2 can be specified for regular or high isolation.

a)	**Regular Isolation:**	**>15 dB**
	approximate Insertion Loss (IL):	**1.5 ± 0.5dB**
b)	**High Isolation:**	**> 30 dB**
	approximate Insertion Loss (IL):	**2.0 ± 0.5 dB**

4. Product Layout

The TC4001-1 and TC4001-2 are illustrated below. The connectors, shown from left to right, are labeled 1310+1550nm, 1310nm and 1550nm (on both the single and dual fiber optic models).

TC4001-1

TC4001-2

TC COMMUNICATIONS
FIBER OPTIC CONNECTIVITY

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5. Warranty & Return Policy

Return Policy

To return a product, you must first obtain a Return Material Authorization number from the Customer Service Department. If the product's warranty has expired, you will need to provide a purchase order to authorize the repair. When returning a product for a suspected failure, please provide a description of the problem and any results of diagnostic tests that have been conducted.

Warranty

Damages by lightning or power surges are not covered under this warranty.

All products manufactured by TC Communications, Inc. come with a five year (beginning 1-1-02) warranty. TC Communications, Inc. warrants to the Buyer that all goods sold will perform in accordance with the applicable data sheets, drawings or written specifications. It also warrants that, at the time of sale, the goods will be free from defects in material or workmanship. This warranty shall apply for a period of five years from the date of shipment, unless goods have been subject to misuse, neglect, altered or destroyed serial number labels, accidents (damages caused in whole or in part to accident, lightning, power surge, floods, fires, earthquakes, natural disasters, or Acts of God.), improper installation or maintenance, or alteration or repair by anyone other than Seller or its authorized representative.

Buyer should notify TC Communications, Inc. promptly in writing of any claim based upon warranty, and TC Communications, Inc., at its option, may first inspect such goods at the premises of the Buyer, or may give written authorization to Buyer to return the goods to TC Communications, Inc., transportation charges prepaid, for examination by TC Communications, Inc. Buyer shall bear the risk of loss until all goods authorized to be returned are delivered to TC Communications, Inc. TC Communications, Inc. shall not be liable for any inspection, packing or labor costs in connection with the return of goods.

In the event that TC Communications, Inc. breaches its obligation of warranty, the sole and exclusive remedy of the Buyer is limited to replacement, repair or credit of the purchase price, at TC Communications, Inc.'s option.

To return a product, you must first obtain a Return Material Authorization (RMA) number and RMA form from the Customer Service Department. If the product's warranty has expired, you will need to provide a purchase order to authorize the repair. When returning a product for a suspected failure, please fill out RMA form provided with a description of the problem(s) and any results of diagnostic tests that have been conducted. The shipping expense to TC Communications should be prepaid. The product should be properly packaged and insured. After the product is repaired, TC Communications will ship the product back to the shipper at TC's cost to U.S. domestic destinations. (Foreign customers are responsible for all shipping costs, duties and taxes [both ways]. We will reject any packages with airway bill indicating TC communications is responsible for Duties and Taxes. To avoid Customs Duties and Taxes, please include proper documents indicating the product(s) are returned for repair/retest).