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Model J724

single-channel compact buffered electrical-to-fiberoptic converter



Overview

Specifications

Resources

Overview

Features:

- Compact DC-coupled logic-level to fiberoptic converter
- Small, rugged anodized extruded aluminum package allows the e/o transition to be located wherever most convenient
- Available with 850 nanometer laser for multimode fiber, and 1310 nanometer or 1550 nanometer laser for single or multimode fiber
- Uses commonly available ST or FC connectorized fiberoptic cables
- Adjustable logic-level inputs are compatible with TTL, LVTTL, ECL, NIM, and most other common logic levels
- High noise immunity ensures error-free logic transmission in severe EMI environments
- User-selectable input logic threshold and termination

- Timing link jitter typically below 12 picoseconds RMS when used with compatible J730 or V730 optical/electrical converters
- Ideal accessory for model P500 benchtop digital delay/pulse generator

Description:

The J724 is a compact standalone electrical-to-optical converter. It accepts a digital logic level input and provides a fast fiber-coupled laser drive.

Input threshold is user-settable from -4.0 to +5.0 volts, and termination is selectable to be 50 ohms or 2K.

The J724-1 includes an 850 nanometer VCSEL with ST connector, suitable for driving 62/125 micron multimode fiber. It can drive the J730-1 single-channel O/E converter or the six-channel V730-1 VME O/E converter module.

The J724-3 uses a 1310 nm Fabry-Perot laser with ST connector, intended for use with 9/125 micron singlemode fiber, but also usable with 62/125 micron multimode fiber. It can drive the J730-3 standalone O/E converter or the V730-3 VME six-channel receiver. Because of the low temporal dispersion of singlemode fiber, a 1310 nanometer singlemode system will demonstrate superior timing stability and lower jitter over long distances.

The J724-5 uses a 1550 nanometer Fabry-Perot laser with ST connector, intended for use with 9/125 micron singlemode fiber, but also usable with 62/125 micron multimode fiber. It can drive the J730-5 standalone O/E converter or the V730-5 VME six-channel receiver.

All J724 models are also available with FC connectors.

The J724 is also an excellent source for the T760 dual-channel 100-volt output optical-to-electrical converter.

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