



050-381

PRODUCT BRIEF

GLENAIR PCB MOUNT DUAL TRANSCEIVER EVALUATION BOARD
FOR GLENAIR PCB MOUNT DUAL TRANSCEIVERS (4 MOUNTING SCREWS)

REV	DESCRIPTION	DATE	APPROVED
1	Preliminary	07/21/2016	SZ/GC
2	Remove Gap Pad P/N reference	09/24/2018	RAS/GC

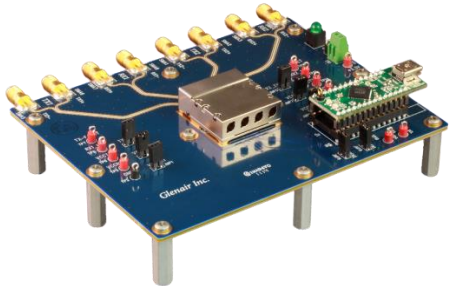
BF16U2-5851

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050-381 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Dual Transceivers



The 050-381-EVALBOARD can be used to evaluate 050-373 Board Mount Dual Optical Transceiver (4 mounting screws) operating from 100Mbps to 5Gbps data rate. The transceivers can be used for bidirectional fiber optic link over 4 multimode 50 μ m/125 μ m or 62.5 μ m/125 μ m type fiber optic cables.

For purposes of this document, 050-373, will henceforth be referred to as Unit under Test (UUT).

The evaluation board is designed as an interface to allow evaluation of the Optical Transmitters and the Optical receivers on the board mount dual transceiver module. Devices are powered through the 3.3V and GND connections.

For each of the transmitters, Fault condition (TXn-Fault) can be monitored via test points and the Transmitter disable (TXn-Disable) can be controlled via Jumpers.

For each of the receivers, loss of signal (LOS_n) state can be monitored via test points.

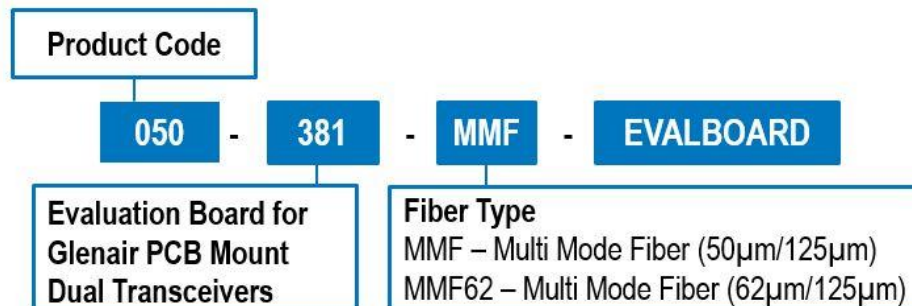
KEY FEATURES/BENEFITS

- Supports large variety of Dual Optical Transmitters/ Receivers suitable for Harsh Environment (Wide temperature ranges and Extremely High Vibration)
 - 0.1 Gbps to 10 Gbps

APPLICATIONS

- As an evaluation tool for Glenair Opto-electronic modules which are suited to Harsh Environment Applications such as: Airborne, Tactical Military, Oil and Gas, Railway and Shipboard
 - Ethernet, Fibre Channel, 1x, 2x, 4x, 8x, SFPDP, Aurora
 - Video (DVI, SMPTE, ARINC818, etc)

How To Order



050-381 PRODUCT BRIEF
Evaluation Board
For Glenair PCB Mount Dual Transceivers



What is included with 050-381:

- The 050-381-MMF-EVALBOARD kit includes the following:
 - Evaluation board PCBA 691-05077
 - 050-381 Datasheet
 - 4 fiber optic MMF test jumper cables (1-2m, 50µm/125µm, ARINC 801 connector to LC connector)
 - Gap Pad 0.040" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-04 or equivalent
 - Gap Pad 0.050" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-05 or equivalent
 - Insertion/Extraction Tool for #16 Contacts
 - 1 LC to LC adapter

050-381-MMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-373 (Dual Transceiver (4 Mounting Screws), 850nm VCSEL MMF, 0.1-5 Gbps)
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- The 050-381-MMF62-EVALBOARD kit includes the following:
 - Evaluation board PCBA 691-05077
 - 050-381 Datasheet
 - 4 fiber optic MMF test jumper cables (1-2m, 62µm/125µm, ARINC 801 connector to LC connector)
 - Gap Pad 0.040" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-04 or equivalent
 - Gap Pad 0.050" thick, Laird Technologies, Tflex 400 Series Thermal Gap Filler, Laird P/N: A15896-05 or equivalent
 - Insertion/Extraction Tool for #16 Contacts
 - 1 LC to LC adapter

050-381-MMF62-EVALBOARD	USED TO TEST THE FOLLOWING: 050-373 (Dual Transceiver (4 Mounting Screws), 850nm VCSEL MMF, 0.1-5 Gbps)
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NOTE: In order to simplify attachment of the fiber cable assemblies to the module, please insert ARINC 801 connectors of the fiber cable assemblies into the 050-333 module before installing the module on the evaluation board. Also prior to removal of the fibers from the 050-333 module please remove the module from the evaluation board.

Opto-Electronic Devices and additional Test cables sold separately: Many options can be supported.

- Glenair PCB Mount devices Selection Guide
 - http://www.glenair.com/opto_electronic/b.htm
- Fiber Optic Test cables as required:
 - MMF & SMF test cables can be configured to support all Glenair Opto-electronic components
 - FA03216: http://www.glenair.com/opto_electronic/pdf/b/fa03216.pdf