



050-338

PRODUCT BRIEF

GLENAIR PCB MOUNT QUAD TRANSMITTER / QUAD RECEIVER EVALUATION BOARD
FOR GLENAIR PCB MOUNT QUAD TRANSMITTERS AND QUAD RECEIVERS

REV	DESCRIPTION	DATE	APPROVED
A	Initial Release	03/04/2015	SZ
B	Updated Datasheet format to new format with ECCN. Added option for 62µm MMF cable	07/20/2015	SZ/GC
C	Per DCN 63527; Remove ECCN Information	01/19/2017	RAS/GC
D	Per DCN 72590; Remove Gap Pad P/N reference	09/24/2018	RAS/GC

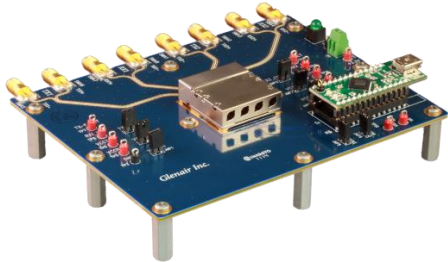
BF14U2-7078

THIS COPYRIGHTED DOCUMENT IS THE PROPERTY OF GLENAIR, INC. AND IS FURNISHED ON THE CONDITION THAT IT IS NOT TO BE DISCLOSED, REPRODUCED IN WHOLE OR IN PART, OR USED TO SOLICIT QUOTATIONS FROM COMPETITIVE SOURCES, OR USED FOR MANUFACTURE BY ANYONE OTHER THAN GLENAIR, INC. WITHOUT WRITTEN PERMISSION FROM GLENAIR, INC. THE INFORMATION HEREIN HAS BEEN DEVELOPED AT GLENAIR'S EXPENSE AND MAY BE USED FOR ENGINEERING EVALUATION AND INCORPORATION INTO TECHNICAL SPECIFICATIONS AND OTHER DOCUMENTS WHICH SPECIFY PROCUREMENT OF PRODUCTS FROM GLENAIR, INC.

050-338 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Quad Transmitters/Receivers



The 050-338-EVALBOARD can be used to evaluate PCB Mount Quad Optical Transmitters and PCB Mount Quad Optical Receivers. The evaluation board has been designed for high data rate operation and incorporates 8 SMA connectors that interface with high speed 100 ohm differential lines which can support testing of products up to 10Gbps data rates.

The evaluation board is designed as an interface to allow evaluation of the Optical Transmitter and the Optical receiver on the board mount Quad Transmitter or Quad Receiver modules. Devices are powered through the 3.3V and GND connections.

For the transmitters, Fault condition (TXn-Fault) can be monitored for each individual transmitter (TX1, TX2, TX3, TX4) via test points and each individual Transmitter disables (TXn-Enable) can be controlled via Jumpers.

For the receivers, loss of signal (LOS_n) state can be monitored for each individual receiver (RX1, RX2, RX3, RX4) via test points.

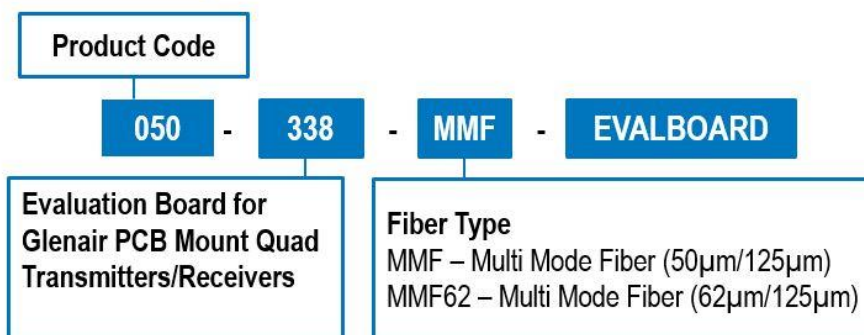
KEY FEATURES/BENEFITS

- 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



050-338 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Quad Transmitters/Receivers



What is included with 050-338:

- The 050-338-MMF-EVALBOARD kit includes the following:
 - Evaluation board PCBA 990-05102
 - 050-338 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

050-338-MMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-336 (Quad Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-337 (Quad Receiver, 850nm MMF, 0.1-5 Gbps)
-----------------------	--

- The 050-338-MMF62-EVALBOARD kit includes the following:
 - Evaluation board PCBA 990-05102
 - 050-338 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

050-338-MMF62-EVALBOARD	USED TO TEST THE FOLLOWING: 050-336 (Quad Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-337 (Quad Receiver, 850nm MMF, 0.1-5 Gbps)
-------------------------	--

Opto-Electronic Devices and 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