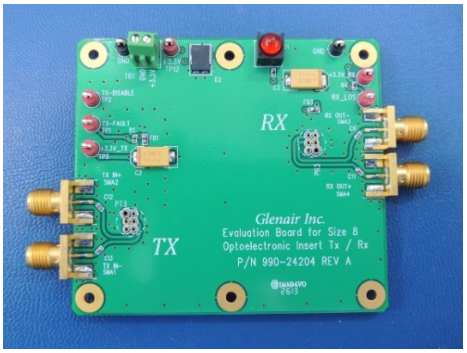
050-301 EVALBOARD

PRODUCT BRIEF

GLENAIR PCB MOUNT TRANSCEIVER EVALUATION BOARD FOR GLENAIR PCB MOUNT OPTICAL TRANSCEIVERS

REV	DESCRIPTION	DATE	APPROVED
A	Initial Release	3/04/2016	SZ
B	Update Text	10/22/2015	SZ
C	Update Test set block diagrams	1/6/2016	SZ
D	Per DCN61271; Update Datasheet to new format	08/03/2016	SZ/GC
E	Per DCN61440; Add new BOM with 62um jumpers included	08/16/2016	

050-301 PRODUCT BRIEF
Evaluation Board
For Glenair Size #8 Opto-Electronic Transmitter/Receiver Contacts



The 050-301-EVALBOARD (Size #8 evaluation board) can be used in one of three test configurations to test active size #8 opto-electronic contacts (i.e. p/n 050-301, 050-307, 050-367, and other general size #8 contacts). The options are:

- Transmitter only
- Receiver only, and
- Both transmitter and receiver either in a single link or two separate links.

The evaluation board is designed as an interface to allow evaluation of the size #8 transmitters or receivers. Devices are powered through the 3.3V and GND connections. For the transmitter fault pin can be monitored and the transmitter disable can be controlled via an external voltage supply. For the receiver, los of signal (LOS) state can be monitored.

KEY FEATURES/BENEFITS

- Supports variety of Glenair Size #8 contacts for Harsh Environment (Wide temperature ranges and Extremely High Vibration)
  - 100Mbps to 4.25 Gbps

APPLICATIONS

- As an evaluation tool for Glenair Size #8 Opto-Electronic Transmitter and Receiver Contacts which are suited to Harsh Environment Applications such as: Airborne, Tactical Military, Oil and Gas, Railway and Shipboard

How To Order

Product Code

050	-	301	-	EVALBOARD	-	62

050-301: Evaluation Board for Glenair Size #8 Opto-Electronic Transmitter/Receiver Contacts

EVALBOARD-62: Fiber Type
__ = Multi Mode Fiber (50µm/125µm)
62 – Multi Mode Fiber (62µm/125µm)

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Evaluation Board
For Glenair Size #8 Opto-Electronic Transmitter/Receiver Contacts

What is included with 050-301-EVALBOARD:

- The 050-301-EVALBOARD kit includes the following:
  - Assembled Evaluation PCBA 990-24204
  - 050-301-EVALBOARD Datasheet
  - 2 fiber optic MMF test jumper cables (1-2m, 50µm/125µm, ARINC 801, LC connector)

050-301-MMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-301 (1.25mm, 850nm VCSEL MMF Transmitter/Receiver, 0.1 – 4.25 Gbps) 050-307 (2.5mm, 850nm VCSEL MMF Transmitter/Receiver, 0.1 – 4.25 Gbps) 050-367 (1.25mm, 850nm VCSEL MMF Transmitter/Receiver, SMPTE: HD-SDI & 3G-SDI)

- The 050-301-EVALBOARD-62 kit includes the following:
  - Assembled Evaluation PCBA 990-24204
  - 050-301-EVALBOARD Datasheet
  - 2 fiber optic MMF test jumper cables (1-2m, 62µm/125µm, ARINC 801, LC connector)

050-301-MMF62-EVALBOARD	USED TO TEST THE FOLLOWING: 050-301 (1.25mm, 850nm VCSEL MMF Transmitter/Receiver, 0.1 – 4.25 Gbps) 050-307 (2.5mm, 850nm VCSEL MMF Transmitter/Receiver, 0.1 – 4.25 Gbps) 050-367 (1.25mm, 850nm VCSEL MMF Transmitter/Receiver, SMPTE: HD-SDI & 3G-SDI)

Glenair Size #8 Opto-Electronic Transmitter/Receiver Contacts and additional Test cables are sold separately: Many options can be supported.

- Glenair Size #8 Opto-Electronic Transmitter/Receiver Contacts Selection Guide
  - https://www.glenair.com/opto_electronic/a.htm

- Fiber Optic Test cables as required:
  - MMF test cables can be configured to support all Size #8 Opto-Electronic Transmitter/Receiver Contacts
  - FA03216: http://www.glenair.com/opto_electronic/pdf/b/fa03216.pdf

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