



050-330

PRODUCT BRIEF

GLENAIR PCB MOUNT DUAL TRANSMITTER / DUAL RECEIVER EVALUATION BOARD
FOR GLENAIR PCB MOUNT DUAL TRANSMITTERS AND DUAL 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	07/19/2015	SZ/GC
C	Per DCN 63527; Remove ECCN Information	01/19/2017	RAS/GC
D	Per DCN 64107; Add new Evalboard picture	03/02/2017	RAS/GC
E	Per DCN64905; Add new p/n's to what evalboard can test	04/28/2017	RAS/GC

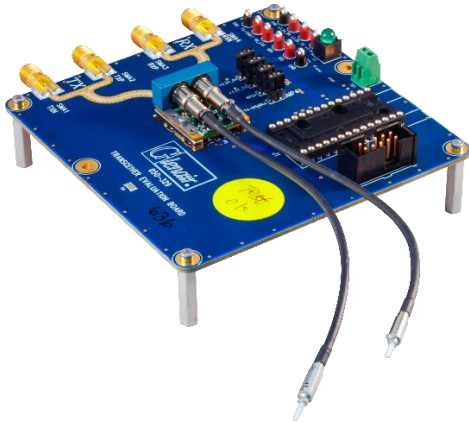
BF15U2-1921

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.

050-330 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Dual Transmitters/Receivers



The 050-330 Evaluation boards can be used to evaluate multiple types of Glenair PCB Mount Dual Optical Transmitters/ Receivers (UUT). The evaluation board has been designed for high data rate operation and incorporates 4 SMA connectors that interface with high speed 100 ohm differential lines which can support testing products up to 10Gbps data rates for both multi-mode and single mode applications.

The evaluation board is designed as an interface to allow evaluation of the Dual Optical Transmitter and the Dual Optical receiver. Devices are powered through the 3.3V and GND connections.

For the transmitter, Fault condition (TX-Fault) can be monitored via a test point and the Transmitter disable (TX-Disable) can be controlled via a Jumper.

For the receiver, loss of signal (LOS) state can be monitored via a test point.

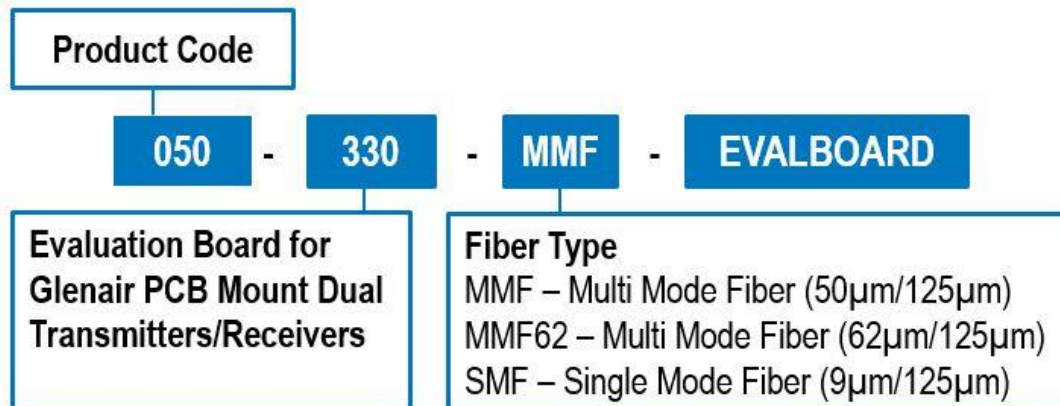
KEY FEATURES/BENEFITS

- 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



050-330 PRODUCT BRIEF

Evaluation Board

For Glenair PCB Mount Dual Transmitters/Receivers



What is included with 050-330:

- The 050-330-MMF-EVALBOARD kit includes the following:
 - Evaluation board PCBA 990-0543
 - 050-330 Datasheet
 - 2 fiber optic MMF test jumper cables (1-2m, 50µm/125µm, GC connector to LC connector)
 - 1 LC to LC adapter

050-330-MMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-316 (Dual Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-317 (Dual Receiver, 850nm MMF, 0.1-5 Gbps) 050-331 (SMPTE Dual Transmitter, 850nm VCSEL MMF, 2.97 Gbps) 050-332 (SMPTE Dual Receiver, 850nm MMF, 2.97 Gbps) 050-386 (850nm VCSEL MMF Dual-TX, 5-10.5 Gbps)
-----------------------	---

- The 050-330-MMF62-EVALBOARD kit includes the following:
 - Evaluation board PCBA 990-0543
 - 050-330 Datasheet
 - 2 fiber optic MMF test jumper cables (1-2m, 62µm/125µm, GC connector to LC connector)
 - 1 LC to LC adapter

050-330-MMF62-EVALBOARD	USED TO TEST THE FOLLOWING: 050-316 (Dual Transmitter, 850nm VCSEL MMF, 0.1-5 Gbps) 050-317 (Dual Receiver, 850nm MMF, 0.1-5 Gbps) 050-331 (SMPTE Dual Transmitter, 850nm VCSEL MMF, 2.97 Gbps) 050-332 (SMPTE Dual Receiver, 850nm MMF, 2.97 Gbps) 050-386 (850nm VCSEL MMF Dual-TX, 5-10.5 Gbps)
-------------------------	---

- The 050-330-SMF-EVALBOARD kit includes the following:
 - Evaluation board PCBA 990-0543
 - 050-330 Datasheet
 - 2 fiber optic SMF test jumper cables (1-2m, SMF 9µm /125µm , GC connector to LC connector)
 - 1 LC to LC adapter

050-330-SMF-EVALBOARD	USED TO TEST THE FOLLOWING: 050-319 (Dual Transmitter, 1310nm FP SMF, 0.1-4.25 Gbps) 050-320 (Dual Receiver, 1310nm SMF, 0.1-4.25 Gbps) 050-356 (CWDM Dual Transmitter, CWDM DFB SMF, 0.1-2.5 Gbps) 050-357 (SMPTE Dual Receiver, 1250-1600nm SMF, 2.97 Gbps) 050-358 (SMPTE CWDM Transmitter, CWDM DFB SMF, 1.5 Gbps) 050-376 (CWDM DFB SMF Dual TX, 10 Gbps)
-----------------------	--

050-330 PRODUCT BRIEF
Evaluation Board
For Glenair PCB Mount Dual Transmitters/Receivers



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