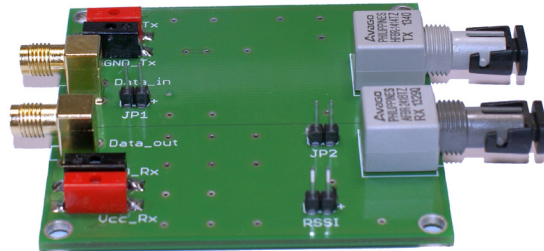


## AFBR-0549Z, AFBR-0550Z

Evaluation Kits for the HFBR-1414PTZ Fiber Optic Transmitter and the AFBR-2418TZ/AFBR-2419TZ Fiber Optic Receivers



## Product Brief



### Description

The AFBR-0549Z/AFBR-0550Z evaluation kits provide system designers with a convenient means to evaluate the performance of the HFBR-1414PTZ fiber optic transmitter and the AFBR-2418TZ/AFBR-2419TZ fiber optic receivers.

Each evaluation board is mounted with an HFBR-1414PTZ module, which will be used as the reference transmitter; an AFBR-2418TZ or an AFBR-2419TZ module; two SMA connectors for input/output signals; and two 2-pin headers, one for monitoring the electrical input signal supplied to the transmitter section of the evaluation board (JP1) and the other one for monitoring the electrical output signal generated by the receiver (JP2).

The evaluation board is a two-layer PCB designed for up to 50 Mbit/s. The transceiver lines are placed below the ground plane (top side) to ensure a low inductance signal return path and continuous impedance along the trace. The ground plane under/around the transceiver helps dissipate thermal energy. For best transceiver performance, the decoupling capacitor and ferrite bead should be placed as close as possible to the transceiver supply voltage.

### Evaluation Kit Components

The evaluation kit includes:

- Evaluation board (mounted with either AFBR-2418TZ or AFBR-2419TZ)
- 1-meter-long ST/ST 62.5  $\mu\text{m}$  multimode fiber.
- 1-meter-long ST/ST 200  $\mu\text{m}$  PCS fiber.

### Ordering Information

AFBR-0549Z	Evaluation board mounted with HFBR-1414PTZ fiber optic transmitter and AFBR-2418TZ* fiber optic receiver.
AFBR-0550Z	Evaluation board mounted with HFBR-1414PTZ fiber optic transmitter and AFBR-2419TZ** fiber optic receiver.

#### Notes:

\* AFBR-2418TZ - input data rate ranging from DC to 50 MBd

\*\* AFBR-2419TZ - input data rate ranging from from 100 kBd to 50 MBd.

### Reference

Application Note 5577, AFBR-0549Z/AFBR-0550Z - Evaluation Kits for the HFBR-1414PTZ Fiber Optic Transmitter and the AFBR-2418TZ/AFBR-2419TZ Fiber Optic Receivers (AV02-4439EN)

For product information and a complete list of distributors, please go to our web site: [www.avagotech.com](http://www.avagotech.com)

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