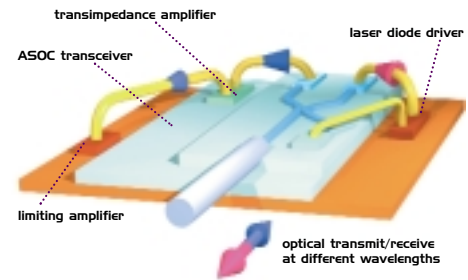


ASOC® Dual-wavelength Single-fiber 1x9 Transceiver Modules

BKM-3450-F Family

With Laser Diode Driver,
AGC Transimpedance Amplifier and Limiting Amplifier
For 12+1dB point-to-point links at OC-3

1310nm Transmit 1550nm Receive
1550nm Transmit 1310nm Receive



Features

- Industry-standard 1x9 module pin-out with ASOC single-fiber bi-directional operation
- PECL compatible data input and output logic levels
- Limiting amplifier enables flexible data rates up to OC-3
- Uncooled operation from -40°C to +85°C
- Provides 1310nm/1550nm WDM FITL solution
- Extinction ratio and power maintained over temperature and life with dual-loop laser diode driver
- No user set-up required

Applications

- Access networks
- Duplex point-to-point links on a single fiber
- Fiber to the curb (FTTC)
- Fiber to the cabinet (FTTCab)
- Fiber to the business or office (FTTB/FTTO) e.g. multiple T1
- 9 miles/50 kft line extenders – single-fiber implementation for SONET OC-3 Short Reach (SR) and Intermediate Reach (IR-1 and IR-2) applications
- G.981 PDH WDM implementation
- Digital loop carrier (DLC) systems
- Link budget of 12+1dB at OC-3 (protected by 19dB beginning of life test)
- Extended link budgets possible for lower data rates

Bookham Technology offers a range of ASOC optical products that are designed for single-fiber networks, for use in exposed locations such as street cabinets.

This product summary describes modules suitable for FITL/DLC applications and SONET or PDH line extenders.

These complete electronic modules can significantly shorten your product development cycle by removing the need for analog board design. The limiting amplifier interface provides data rate flexibility for use in different applications. All select-on-test components are included in the module, so it is ready for use and no set-up is required.

For more detailed product information or price enquiries, please contact your regional sales office or e-mail sales@bookham.com

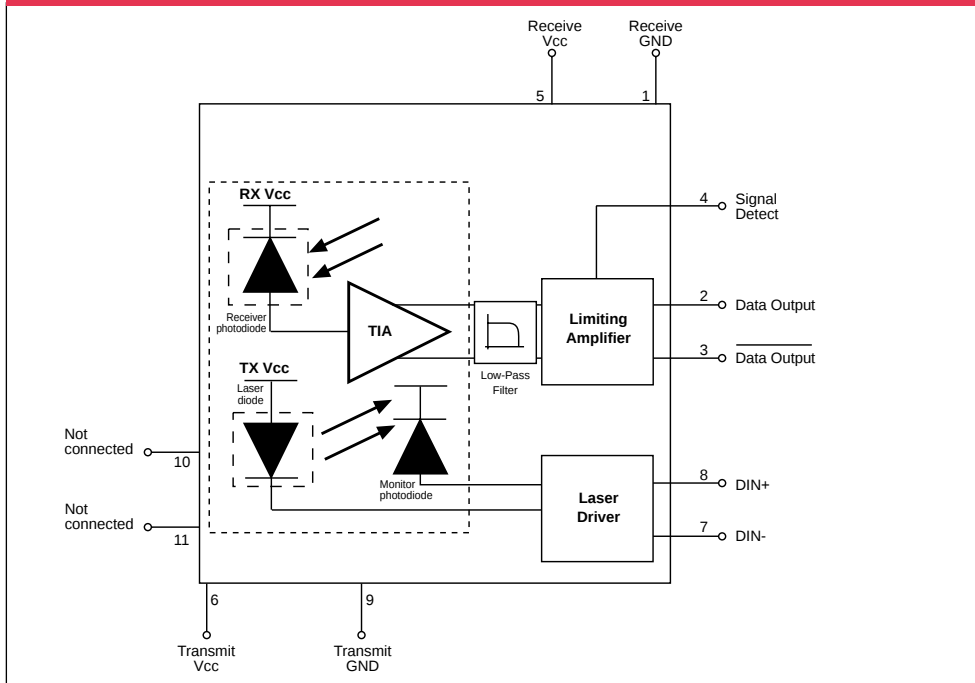
BOOKHAM
technology

Optical Communication through Silicon

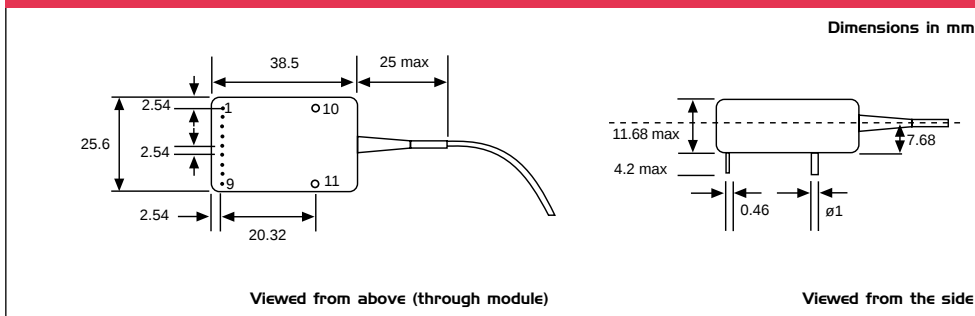
ASOC BKM-3450-F Family Members

Typical values: (-40°C to +85°C)	BKM-3455-F-21	BKM-3456-F-21
Transmit/receive wavelength	1310nm/1550nm	1550nm/1310nm
Mean power in fiber	-7dBm	-7dBm
Duplex sensitivity (at 25°C)	-26dBm	-26dBm
Protected link budget at OC-3	12+1dB	12+1dB

BKM-3450-F Functional Diagram



Package Outline



Termination Options Include:

BKM-3455-F-21-FP or BKM-3456-F-21-FP	FC/PC Connector
BKM-3455-F-21-SP or BKM-3456-F-21-SP	SC/PC Connector

Evaluation Boards

To test these modules for your application, an evaluation board is available. Please contact your regional office for details of the BKM-2959-V-04.

Application Note available on request.

IMPORTANT NOTICE

Bookham Technology has a policy of continuous improvement, as a result certain parameters detailed on this flyer may be subject to change without notice. If you are interested in a particular product please request the product specification datasheet, available from any Bookham Technology sales representative.



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