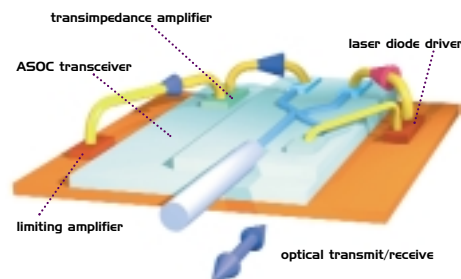


ASOC® Single-wavelength Single-fibre 1x9 Transceiver Modules

BKM-3150-F Family



With Laser Diode Driver,
AGC Transimpedance Amplifier and Limiting Amplifier
For 8dB and 12+1dB point-to-point links at STM-1

1310nm Transmit and Receive



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

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

These complete electronic modules can significantly shorten your product development cycle by removing the need for analogue 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

Features

- Industry-standard 1x9 module pin-out with ASOC single-fibre bi-directional operation
- PECL compatible data input and output logic levels
- Limiting amplifier enables flexible data rates up to STM-1
- Uncooled operation from -40°C to +85°C
- Provides 1310nm FITL solution, keeping 1550nm window free
- 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 fibre
- Fibre to the kerb (FTTK)
- Fibre to the cabinet (FTTC)
- Fibre to the business or office (FTTB/FTTO)
- 15km line extenders – single-fibre implementation for G.957 SDH STM-1 Intra-office (I-1) and Short-haul (S-1.1) applications
- G.981 PDH links
- Also suitable for digital loop carrier (DLC) applications
- Protected link budgets of 8dB and 12+1dB at STM-1
- Extended link budgets for half-duplex (Ping-Pong) operation

BOOKHAM®
technology

Optical Communication through Silicon

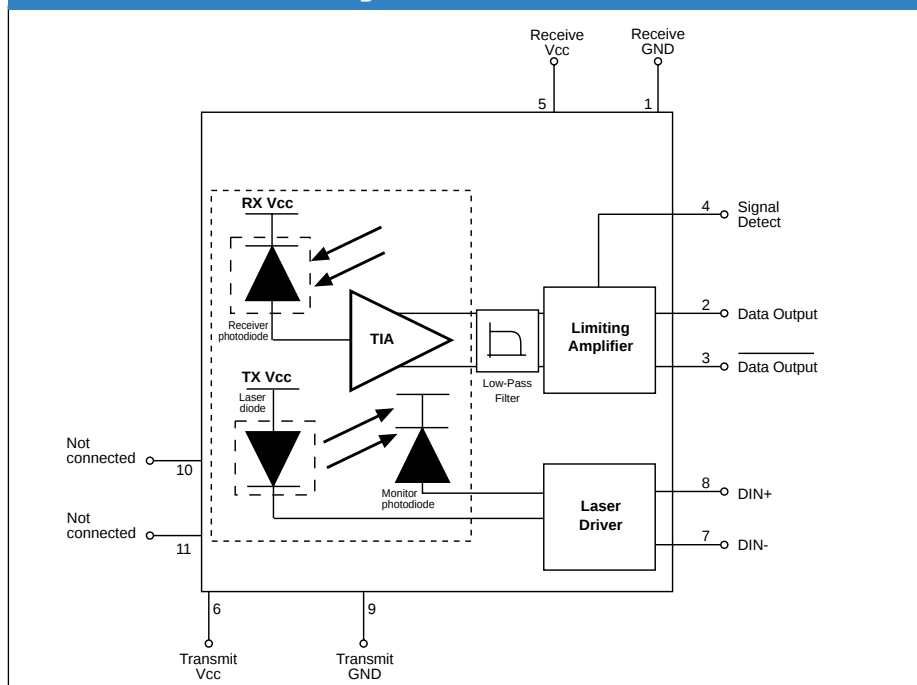
ASOC BKM-3150-F Family Members

Typical values: (-40°C to +85°C)	BKM-3153-F-11	BKM-3153-F-21
Transmit/receive wavelength	1310nm	1310nm
Mean power in fibre	-7dBm	-7dBm
Duplex sensitivity (at 25°C)	-21dBm	-25dBm
Protected link budget at STM-1	8dB	12+1dB

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.

BKM-3150-F Functional Diagram



ISO 9001
FM39955

UK Headquarters

Bookham Technology plc
90 Milton Park
Abingdon, Oxfordshire
OX14 4RY UK
Tel: +44 1235 827200
Fax: +44 1235 827201
E-mail: sales@bookham.com

US

Bookham Technology Inc
8521 Six Forks Road
Suite 305, Raleigh
NC 27615 US
Tel: +1 919 870 6419
Fax: +1 919 870 6766
E-mail: raleigh@bookham.com

US

Bookham Technology Inc
2055 Gateway Place
Suite 400, San Jose
CA 95110 US
Tel: +1 408 451 3940
Fax: +1 408 441 9152
E-mail: sanjose@bookham.com

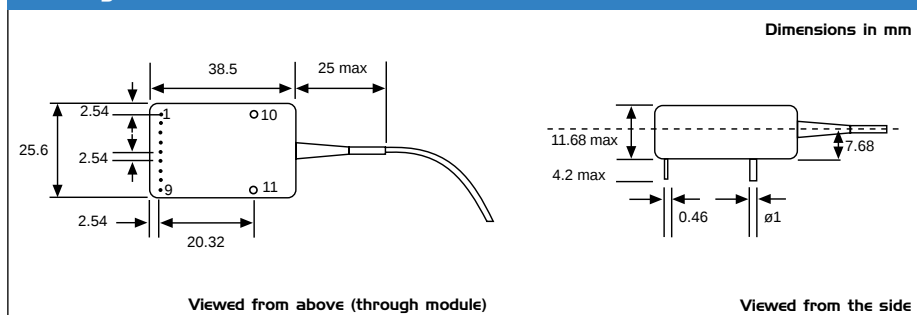
Japan

Bookham Technology KK
KSP W300C, 3-2-1 Sakado
Takatsu-ku, Kawasaki 213-0012
Japan
Tel: +81 44 850 8800
Fax: +81 44 850 8801
E-mail: kawasaki@bookham.com

France

Bookham Technology plc
Atria Paris-Charenton
5 Place des Marseillais,
94227 Charenton le Pont
Cedex, France
Tel: +33 1 4676 6017
Fax: +33 1 4676 6004
E-mail: paris@bookham.com

Package Outline



Termination Options Include:

BKM-3153-F-11-FP or BKM-3153-F-21-FP	FC/PC Connector
BKM-3153-F-11-SP or BKM-3153-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.

REV. 2.0 AUG 2000

©Bookham Technology 2000

Bookham & ASOC are registered trademarks of Bookham Technology plc