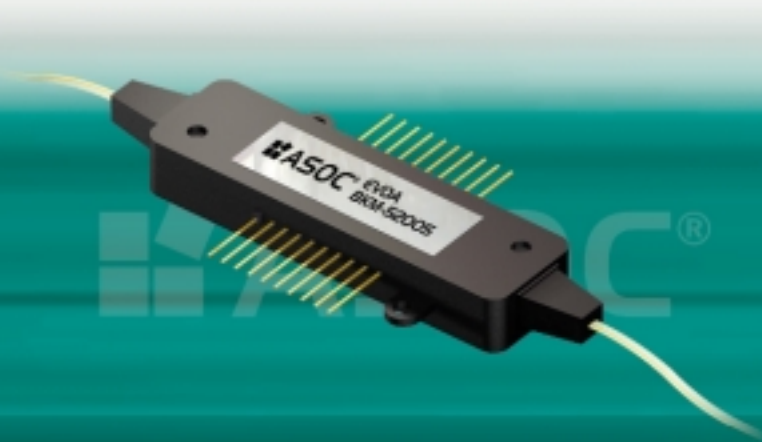


ASOC® 4-channel Electronic Variable Optical Attenuator (EVOA)

BKM-52005 Family



As DWDM systems evolve, channel count is increasing and there is need to remotely balance individual channel power levels. The ASOC 4-channel EVOA allows each channel to be independently controlled by a current source.

The BKM-52005 is the first commercially available silicon-based EVOA. This multi-channel device saves rack space and reduces fibre handling over traditional single-channel VOA's.

The ASOC 4-channel EVOA is a solid state device capable of fast electronic response and high attenuation levels. These features can help to achieve rapid re-configuration and set up times in a system, whilst analogue modulation speeds greater than 1MHz enable channel information to be placed on the digital signal.

For more detailed product information or price enquiries please contact your regional sales office or email sales@bookham.com

Features

- Independent control of 4 channels
- Solid state. No moving parts
- 30dB dynamic range for channel blocking
- High speed
- Compact size
- Ribbon fibre
- 1300nm - 1610nm wavelength operation range
- Low polarisation dependence
- Analogue modulation capability
- Integrated Thermo Electric Cooler (TEC)

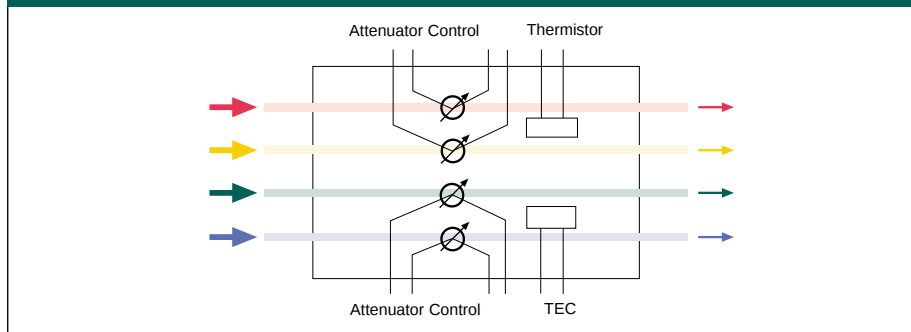
Applications

- Channel balancing for DWDM systems
- Channel blocking for system reconfiguration and optical add-drop multiplexing
- Analogue modulation of optical channel information

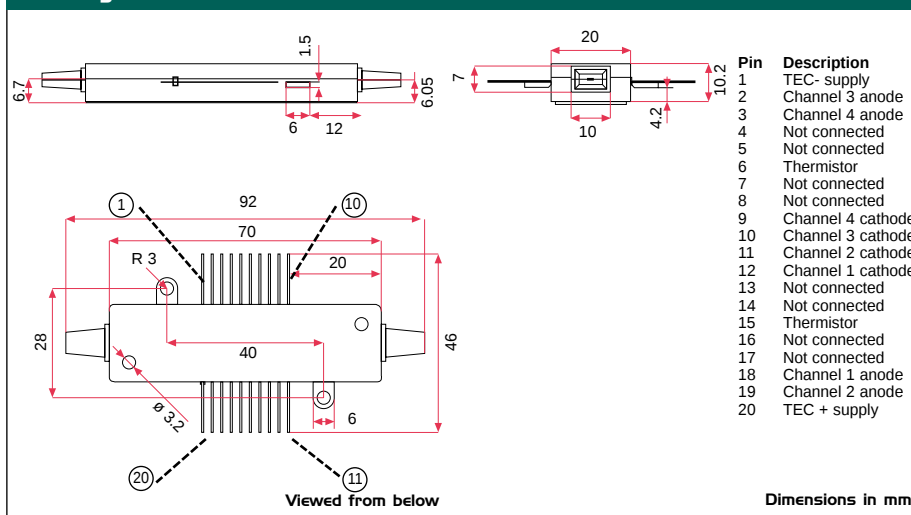
ASOC BKM-52005 Outline Specification

Typical values:	BKM-52005-01
Minimum insertion loss	-2.1dB (typical)
Dynamic range	30dB
PDL 0-10dB	0.3dB (max)
PDL 10-20dB	0.4dB (max)
Max power consumption/per channel	250mW @ 30dB
Optical return loss	< -50dB (excluding connectors)
Operating wavelengths	1300 - 1610nm
Operating temperature	0°C to 65°C
Storage temperature	-40°C to +85°C
TEC supply current	1.2A (max)
TEC supply voltage	3.87V (max)

Functional Diagram



Package Outline



Termination Options Include:

BKM-52005-01-SP	SP/PC
BKM-52005-01-SA	SP/APC
BKM-52005-01-FP	FC/PC
BKM-52005-01-FA	FC/APC

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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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

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