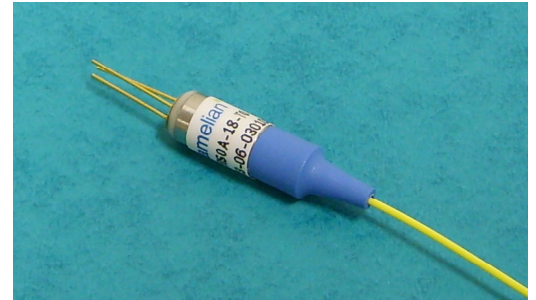


REFLECTIVE SOA (RSOA)

Description

The RSOA utilises a high reflectivity coating on one facet, along with a curved waveguide, and ultra low reflectivity coating on the other facet to produce a highly versatile reflective gain medium. The gain medium capitalises on the exceptionally low PDG, NF and drive current performance of the well established Kamelian range of SOAs.

The RSOA is offered with a range of gains and output powers and is available as either fully tested 'chip on carrier' (details on request), or packaged in the industry standard, low-cost, single mode fibre pigtailed TO-can.



FEATURES

- 1550nm WINDOW
- HIGH AND LOW GAIN VARIANTS
- LOW POLARISATION DEPENDENCE
- LOW NOISE FIGURE
- COMPACT TO-CAN PACKAGE

Applications

This product is suitable for use as a directly modulated 'colourless source' in WDM PON applications at up to 1.25Gbps; and also (in chip form) as a wideband gain element in external cavity tunable lasers.

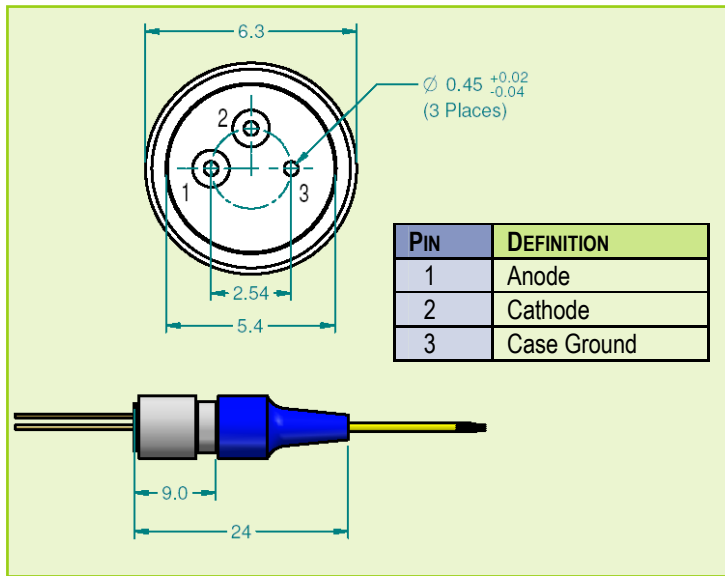
Specifications*

(C Band 1530-1560nm)

PARAMETER	MIN SPECIFICATION	TYPICAL SPECIFICATION	MAX SPECIFICATION
Gain – high gain variant	18dB	20dB	
Gain – low gain variant	10dB	12dB	
Noise figure		7dB	10dB
Saturation output power	3dBm	10dBm	
Polarisation dependence		1.0dB	2.0dB
Gain ripple		1.0dB	3.0dB
Bias current		80mA	120mA
Operating temp	0°C		60°C

* Preliminary specifications only. Note: Specs assume product is externally cooled

Pin Allocation & Package Dimensions



FIBER CONNECTOR	
CODE	CONNECTOR TYPE
FP	FC/PC
FA	FC/APC
FU	FC/UPC
LP	LC/PC
LA	LC/APC
LU	LC/UPC
SP	SC/PC
SA	SC/APC
SU	SC/UPC
∅∅	None

Ordering Information

RSOA - **YY** - **PP** - **W** - **ZZ**

Gain (18 for >18dB and 10 for >10dB are standard other gains on request)

Package variant (TO = pigtailed TO-can is standard;
TC = non-pigtailed TO-can
TH = TO-can header without cap
CC = Chip on carrier)

Wavelength (C for C Band is standard; others on request)

Connector Type (See Table Above)



Amphotonix reserves the right to make changes in design, specifications and other information at any time, and without prior notice. The information contained within this Data Sheet is believed to be accurate. However, no responsibility is assumed for possible inaccuracy or omission. Any information contained herein shall legally bind Amphotonix only if it is specifically incorporated into the terms and conditions of a sales agreement.

AMPHOTONIX LIMITED

4 Stanley Boulevard, Hamilton International Technology Park, High Blantyre, Glasgow, G72 0BN, United Kingdom
Tel: +44 (0) 1698 722074 Fax: +44 (0) 1698 821101 www.kamelian.com Email: amplifiers@amphotonix.com