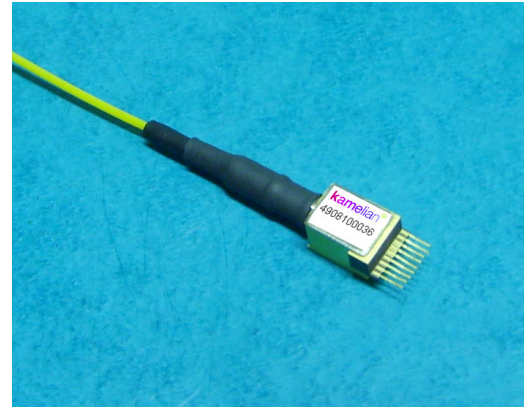


## REFLECTIVE SOA (Box TOSA)

### Description

A high specification Reflective Semiconductor Optical Amplifier (RSOA) packaged in a pigtailed box TOSA with thermoelectric cooler. The R-SOA capitalises on the exceptionally low PDG, NF and drive current performance of the well established Kamelian range of SOAs and is available in a range of gains and wavelength bands. The device is suitable for 1.25Gbit/s data modulation.



### Applications

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

### FEATURES

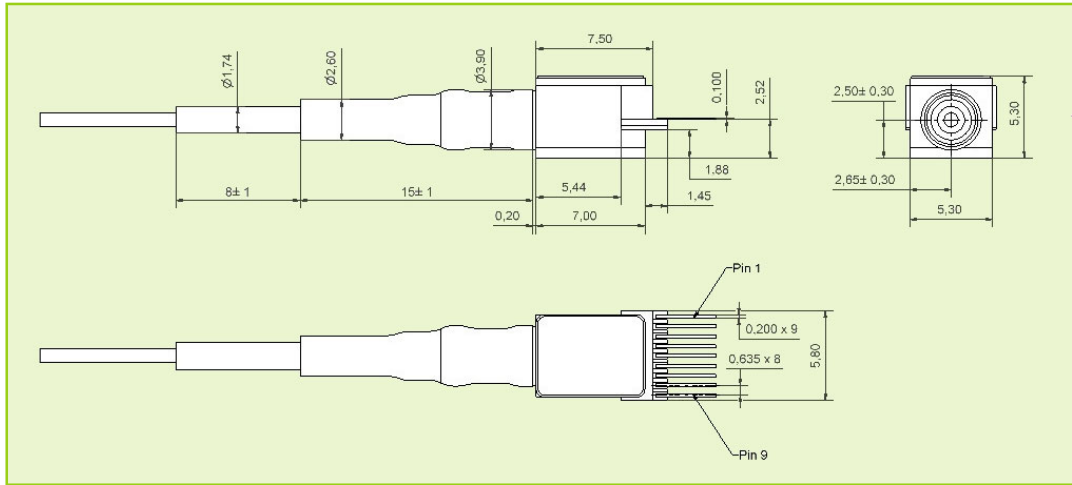
- S, C and L band variants
- Low polarisation dependence
- Low drive current
- 1.25Gbit/s modulation
- 9 pin MSA TOSA PACKAGE

### Specifications\*

PARAMETER	MIN SPECIFICATION	TYPICAL SPECIFICATION	MAX SPECIFICATION
Gain – high gain variant	18dB	20dB	
Gain – low gain variant	10dB	12dB	
Noise figure		8dB	11dB
Saturation output power	3dBm	5dBm	
Polarisation dependence		1.0dB	2.0dB
Gain ripple		1.0dB	3.0dB
Bias current		80mA	120mA
Case Operating temperature	0°C		80°C
Chip Operating temperature	35°C		45°C

\* Preliminary specifications only.

## Pin Allocation & Package Dimensions



PIN	DEFINITION
1	TEC -
2	TEC +
3	LD Anode/PD Cathode
4	LD Cathode (RF Mode)
5	LD Anode/PD Cathode
6	PD Anode
7	LD Cathode (Bias)
8	Thermistor
9	Thermistor

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 - 18 - 9TA - W - ZZ**

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

Package variant (9 pin 2.5Gb MSA TOSA is standard)

Wavelength (C for C Band is standard; S and L available on request)

Connector Type (See Table Above)



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