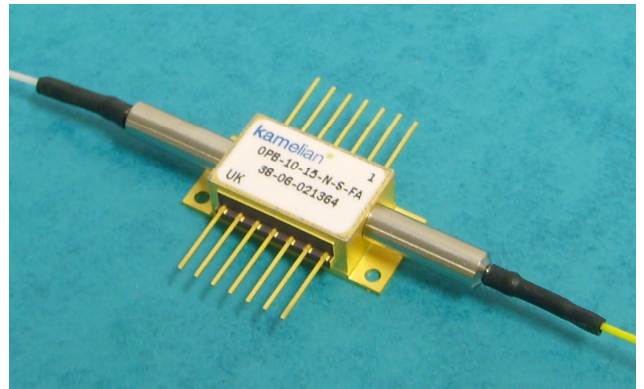


# CWDM POWER BOOSTERS

## Description

These semiconductor optical amplifiers are primarily intended for use as optical power boosters in high bit rate systems. Their high output saturation power levels provide a unique high performance, compact and low cost solution to S and L Band amplification. The SOA booster amplifier package includes a thermistor and thermo-electric cooler in a 14-pin butterfly package with single mode fibre pigtailed.



## Applications

These products are appropriate to CWDM metro and metro access applications. Two variants are available – low gain (min 10dB), and medium gain (min 15dB). The former is appropriate for use at a transmitter for boosting the output power of moderate power lasers. The medium gain variant is intended for mid span applications such as OADM nodes.

## FEATURES

- S AND L BAND
- HIGH OUTPUT POWER
- LOW POLARISATION DEPENDENCE
- LOW NOISE FIGURE
- COMPACT PACKAGE
- MSA COMPLIANT

## Specifications

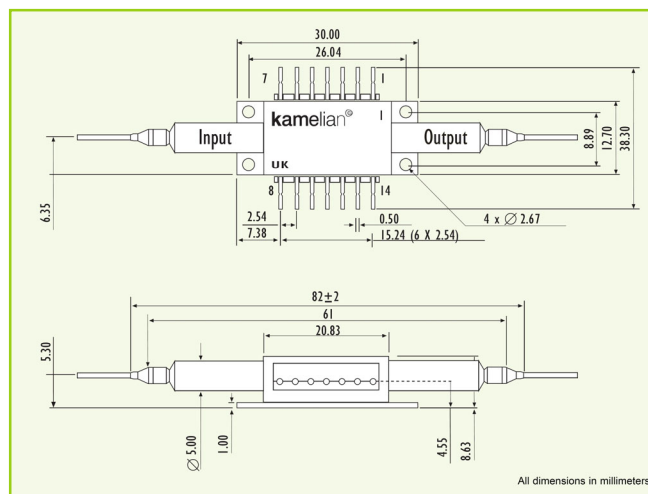
(S Band 1470-1530nm; L Band 1550-1610nm\*)

PARAMETER	MIN SPECIFICATION	TYPICAL SPECIFICATION	MAX SPECIFICATION
Fiber-to-fiber gain OPB-XX-10*	10dB		
Fiber-to-fiber gain OPB-XX-15*	15dB		
Noise figure		7dB	8dB
Saturation output power	10dBm	12dBm	
Polarisation dependence		1.5dB	1.8dB
Gain ripple		0.3dB	0.5dB
Bias current		200mA	250mA
Operating temp	-5°C		70°C
TEC Drive Max		0.7A/1.5V	

\* L Band preliminary specifications only.

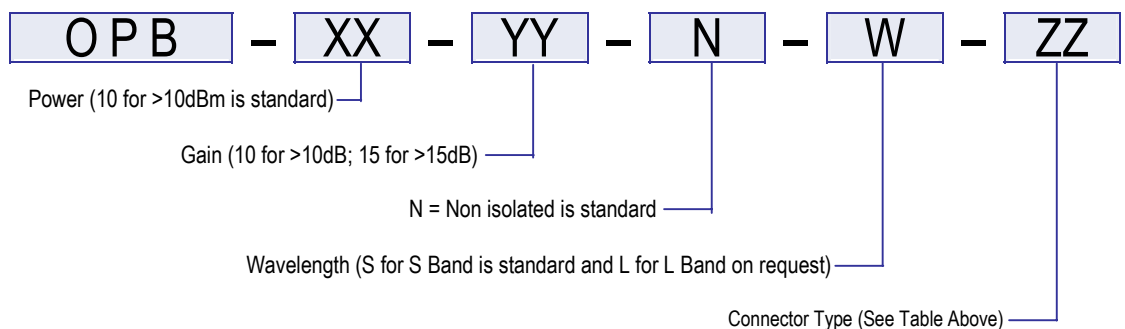
## Pin Allocation & Package Dimensions

PIN	DEFINITION	PIN	DEFINITION
1	TEC +	8	NC
2	THERMISTOR	9	NC
3	NC	10	SOA ANODE (+)
4	NC	11	SOA CATHODE (-)
5	THERMISTOR	12	NC
6	NC	13	CASE GND
7	NC	14	TEC -



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



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.

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