



"X-in-1" Combo C-band Optical Gain Blocks

HYDRA-GB-C Series



Description

The HYDRA series is ConsteleX "combo" solution offering multiple low-noise amplifiers in a single module combining compactness and cost-effectiveness.

HYDRA is fully customizable! you are free to choose the number of ports and power configuration per port that will best fit your application.

Need both C- and L- band amplification? With the HYDRA, you can select to have **C- and L-band amplifiers**, co-packaged in a single gain block with the same small footprint.

Applications

- Photonics R&D
- Optical Signal Processing
- Optical Networks
- Transmission Testbed

HYDRA - GB - C - Series			
Specification	Value	Units	Notes
Input wavelength range	1530-1565	nm	
Saturated Output Power	13 - 19	dBm	Pin = -6 dBm
Input Power	-10	dBm	
Small Signal Gain	> 28	dB	Pin = -20 dBm
Noise Figure (NF)	< 4	dB	Pin = -10 dBm @1555 nm
Environmental Conditions			
Operating Temperature	15 - 50	°C	
Storage Temperature	-20 to +60	°C	
Humidity	0 - 95 %		
Electrical & Mechanical Specifications			
Operating Pump Current	< 950	mA	Depending on model
Operating TEC Current	< 1.5	A	
Dimensions	90 x 70 x 30	mm	
Ordering Information			
Order Code: HYDRA-C-GB-X-FCAPC		X: 2,3,4 amplifiers	
Other connectors available upon request			
All information is accurate and subject to change without notice.			

Electrical connection	
Pin #	Function
1	Laser Anode
2	Laser Cathode
3	TEC +
4	TEC -
5	Thermistor
6	Thermistor
7	Monitor Photodiode Anode
8	Monitor Photodiode Cathode
9	Case GND



LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT



thinking outside the box

ConsteleX Technology Enablers Ltd
Sorou 12, GR-15125
Marousi, Athens
Greece

Tel: +30 211 800 5152
Fax: +30 211 800 5565
email: info@consteleX.eu

www.consteleX.eu