



“X-in-1” Combo C-band Optical Amplifier

HYDRA-M-C Series



Description

The HYDRA series is ConsteleX "combo" solution offering multiple low-noise amplifiers in a single module combining compactness and cost-effectiveness. The module MPO output connector provides simple fiber management and flexibility in connectorisation.

The module includes control electronics and allows for remote current, temperature and emission control, as well as monitoring of current and temperature of pumps using analog electrical signals.

HYDRA is fully customizable! you are free to choose the number of ports and power configuration per port that will best fit your application. You can also select to have **C- and L-band amplifiers**, all in a single module.

Applications

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



L A S E R R A D I A T I O N
A V O I D E X P O S U R E T O B E A M
C L A S S 3 B L A S E R P R O D U C T

HYDRA - M - 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 Voltage	5	VDC	± 500mV
Power Consumption	< 10	W	
Dimensions	125 x 150 x 30	mm	
Ordering Information			
Order Code: HYDRA-C-M-X-FCAPC	X: 2,3,4 amplifiers		
Other connectors available upon request			
All information is accurate and subject to change without notice.			



thinking outside the box