

HIGH POWER LASER DIODES

BRIGHTEX-D1

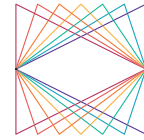
OPI BrighteX-D1 platform further scales the power to 500 W in a compact and reliable package footprint by exploiting coarse **two-wavelengths division multiplexing** on top of beam stacking and polarization combining of the BrighteX-P2 platform. The two wavelength channels power can be controlled independently.

Thanks to the platform approach, OPI Photonics customers can choose the single emitter and delivery fiber characteristics best matching their application requirements.

Main Features:

- Output power up to 500 W
- Two wavelength channels, independently controlled
- Fiber delivery
- Four off-the-shelf variants
- Platform approach to allow optional customizations
- Applications: direct diode sources

PARAMETER	UNIT	SPECIFICATION	
CW output power	W	C1	250
		C2-3-4	330
		C4	500
Operating current	A	C1-2	12
		C3	13.5
		C4	20
Operating voltage	V	C1	25
		C2-3-4	33
Wall plug efficiency	%	50	
Beam NA at 95%	-	C1	0.15
		C2-3-4	0.19
Central wavelength	nm	915	
Fiber core/cladding diameter	μm	C1-2	105/125
		C3	135/155
		C4	200/220
Fiber NA	-	C1	0.15
		C2-3-4	0.22
Pigtail length	m	1.5	
Operating temperature	°C	25	
Relative humidity	%	50	



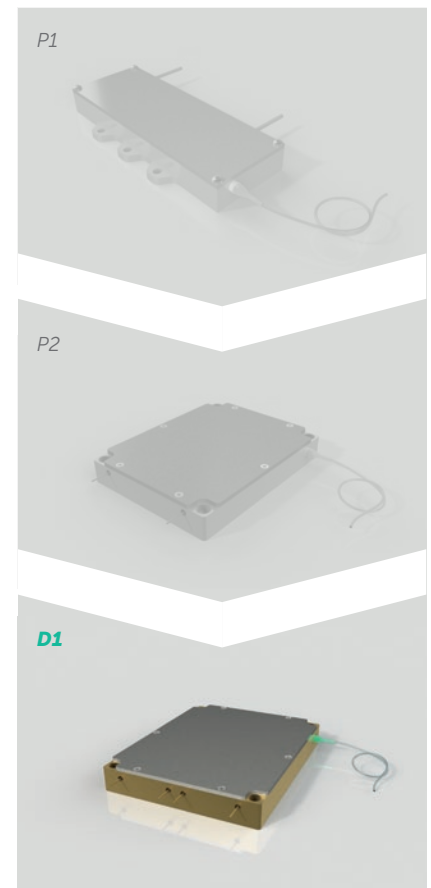
OPIPHOTONICS

UP TO 500 W

FIBER-COUPLED

PLATFORM APPROACH

SPECTRAL MULTIPLEXING



BrighteX series: 3 platforms with increasing complexity.
P1: beam stacking,
P2: polarization combining,
D1: spectral multiplexing.

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