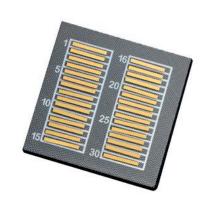
Unmounted Diode Laser Bars (UMBs), 965-985 nm



High-Power Diode Laser Bars for Pumping and Direct-Diode Applications

DEVICE SPECIFICATIONS 1,2,3	60W 10FFX4 mm	100W 18FFX4 mm	150W 30FFx4 mm
Bar Geometry	10FFx4mm	18FFx4mm	30FFx4mm
Polarization	TE	TE	TE
Rated Power (W) (at Tj ≤50°C)	60	100	150
Fill Factor (%)	10	18	30
Number of Emitters	10	19	19
Emitter Width (µm)	100	90	150
Emitter-to-Emitter Pitch (µm)	1000	500	500
Cavity Length (mm)	4	4	4
Centroid Wavelength Available ⁴ (nm)	965 to 985	965 to 985	965 to 985
Centroid Wavelength, Standard (nm) (at 25°C)	975 ±10	975 ±10	975 ±10
Spectral Width, Standard (nm) (FWHM)	<10	<10	<10
Wavelength Temperature Coefficient (nm/°C)	0.4	0.4	0.4
Fast Axis Divergence (degrees) (FWHM)	31	31	31
Slow Axis Divergence (degrees) (FWHM)	<10	<10	<10
Threshold Current (A)	5 typical	8 typical	14 typical
Operating Current (A)	<70 (62 typical)	<120 (110 typical)	<175 (165 typical)
Operating Voltage (V)	<1.7 (1.5 typical)	<1.7 (1.5 typical)	<1.7 (1.5 typical)

¹ Wavelength specifications are based on testing of unmounted bars under low current, low duty cycle, short-pulsewidth test conditions. Contact factory for details.
2 Specifications listed here apply at beginning of life. Operating current at end of life is 120% the operating current at beginning of life.

OPERATION NOTES:

1) Negative current transients greater than 25 µA and/or reverse voltages >3V can destroy the device.



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³ Please consult the factory for any requirements not listed, including the following options: - Centroid wavelength and spectral width requirements other than listed here.

⁻ Optical output powers other than listed here.

Emitter aperture widths other than listed here

⁴ Contact factory for availability.