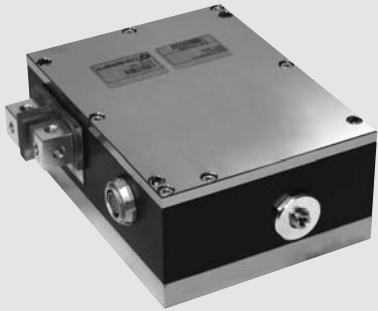




FAP 200 Series

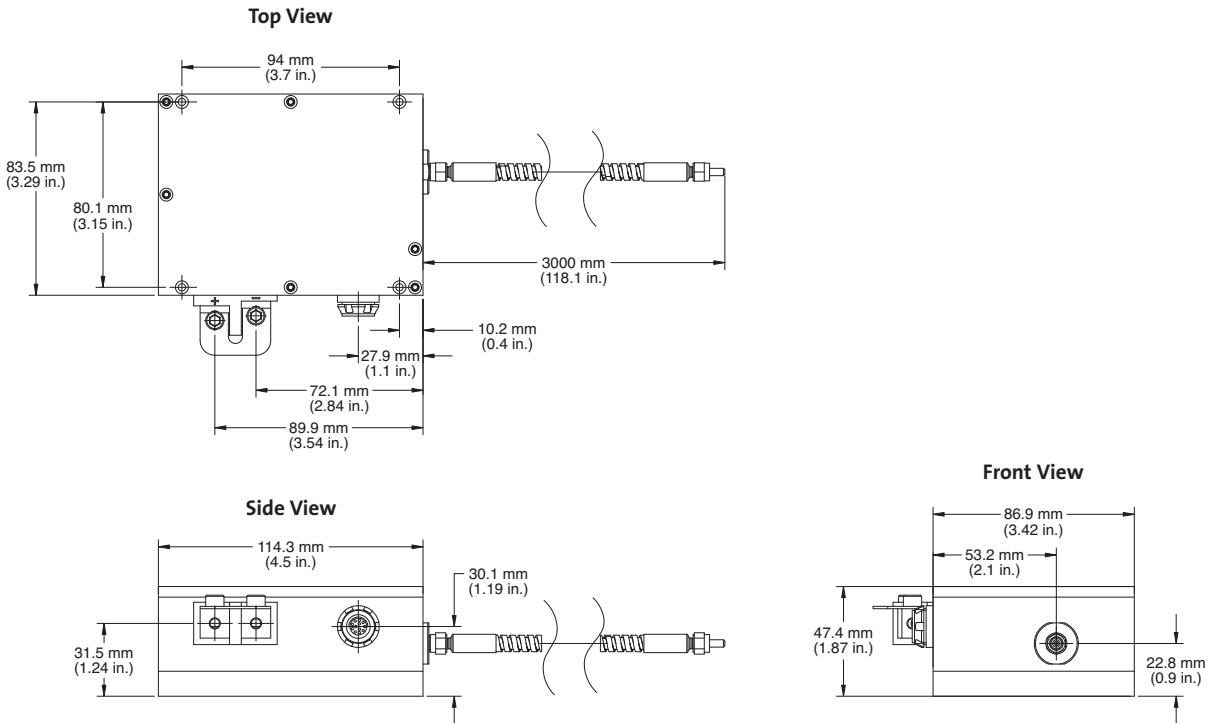
High-Brightness Fiber-Coupled Bars



Features

- High-brightness
- Efficient coupling
- Rugged construction
- Easy connect/disconnect

Mechanical Specifications



Superior Reliability & Performance

FAP 200 Series

High-Brightness Fiber-Coupled Bars

Device Specifications ¹ - Typical	Description/Model Number	FAP200-F1-50W-976 ⁴
Optical Specifications¹	CW Output Power (W)	50
	Center Wavelength ² (nm)	975
	Spectral Width ² (nm)	<10
	Wavelength Temperature Coefficient (nm/°C)	0.28
	Beam Divergence ³ (NA)	0.22
	Beam Diameter (µm)	200
Electrical Characteristics - Typical	Slope Efficiency (W/A)	>0.8
	Conversion Efficiency (%)	>40
	Threshold Current (A)	8
	Operating Current (A)	≤70
	Operating Voltage (V)	<2.2
	Recommended Hookup Wire (gauge)	8 or heavier
Thermal Specifications	Thermal Resistance (typical)(°C/W)	0.7
	Case Operating Temperature (°C)	15 to 45
	Case Storage Temperature (°C)	-10 to 55
Recommended Heat Sink	Capacity (W)	100
	Thermal Resistance (°C/W)	<0.1
Mechanical Specifications	Weight	1.6 kg (3.6 lbs.)
	Fiber Connector	HP-SMA 905

¹ All values measured at case temperature (T_c) = 25°C.

² Custom center wavelengths and custom spectral widths are available, some from stock. Consult your Coherent representative.

³ The numerical aperture of the output beam is defined as the sine of the half-angle of the divergence cone that encircles 90% of the energy.

⁴ F designates high-brightness, fiber-coupled bar packages.

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Fiber Array Packages. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

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