

FEATURES AND BENEFITS



FIBER COUPLED ARRAYS

- High Brightness
 - 0.22 NA
- Passively Cooled
- Long Lifetime, High Reliability

OPTIONS AVAILABLE

- Red Aiming Beam (3mW - 20mW)
- Monitoring Photodiode
- Thermistor (NTC - PT100)
- Integrated TE Coolers

TECHNICAL SPECIFICATIONS

Parameter	Specifications	Units
CW Power Output	90 to 120	W
Center Wavelength	808, 915, 940, 976, 980, 1064, 1340, 1532	nm
Center Wavelength Tolerance	2 to 10	nm
Spectral Width (FWHM)	3 to 5	nm
Operating Temperature	15 to 35	°C
Wavelength Shift	0.3	nm/°C
Fiber Connector	SMA - 905	—
Fiber Core Diameter	400, 600, 800, 1000	µm
Fiber NA	0.22	—
Built-In Thermistor	NTC - 10kOhm -25 °C (Option: PT100)	—
Cooling	Conductive (through bottom surface)	—
Electro-Optical Efficiency	Up to 45%	—
Storage Temperature	-20 to +60	°C

FIBER CORE DIAMETER OPTIONS

Models	Output Power	Fiber 400 µm	Fiber 600 µm	Fiber 800 µm	Fiber 1000 µm
FCAXX-YYY-FZ-F	90W	✓	✓	✓	✓
	100W	✓	✓	✓	✓
	120W	✓	✓	✓	✓

XX = Power (Watts)

YYY = Wavelength (nm)

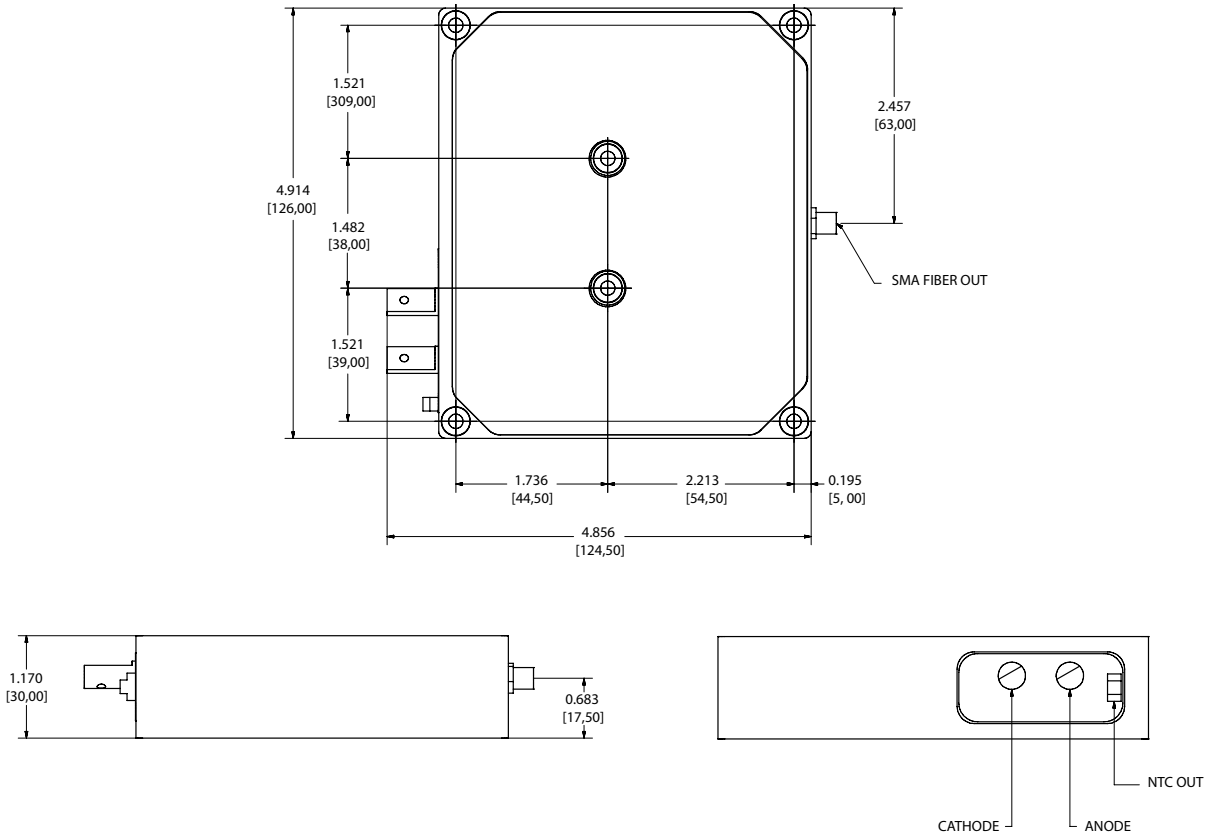
Z = Fiber Diameter (x 100 microns)

90W to 120W CW

APPLICATIONS

Applications	790	808	915	940	976	980	1064	1340	1532
Solid State Laser Pumping	✓	✓		✓		✓			
Fiber Laser Pumping			✓		✓				
Soldering and Welding		✓		✓		✓			
Medical		✓	✓	✓		✓	✓	✓	✓
Illumination	✓	✓	✓	✓	✓		✓	✓	
Material Processing		✓	✓	✓		✓	✓		

MECHANICAL CHARACTERISTICS



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DANGER

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

* Diode laser
SW & lq, 790-1560nm
CLASS IV

WARNING

ELECTROSTATIC DISCHARGE SENSITIVE DEVICE
REQUIRING SPECIAL HANDLING

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