FCA-D PACKAGE

FIBER COUPLED ARRAY

10W to 45W CW

NORTHROP GRUMMAN

FIBER COUPLED ARRAYS

FEATURES AND BENEFITS

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

OPTIONS AVAILABLE

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

TECHNICAL SPECIFICATIONS

Parameter	Specifications	Units
CW Power Output	10 to 45	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	100, 200, 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 100 µm	Fiber 200 µm	Fiber 400 µm	Fiber 600 µm
FCAXX-YYY-FZ-D	10W	✓	✓	✓	✓
	15W	✓	✓	✓	✓
	20W	✓	✓	✓	✓
	25W		✓	✓	✓
	30W		✓	✓	✓
	40W			✓	✓
	45W			✓	✓

XX = Power (Watts)
YYY = Wavelength (nm)
Z = Fiber Diameter (x 100 microns)

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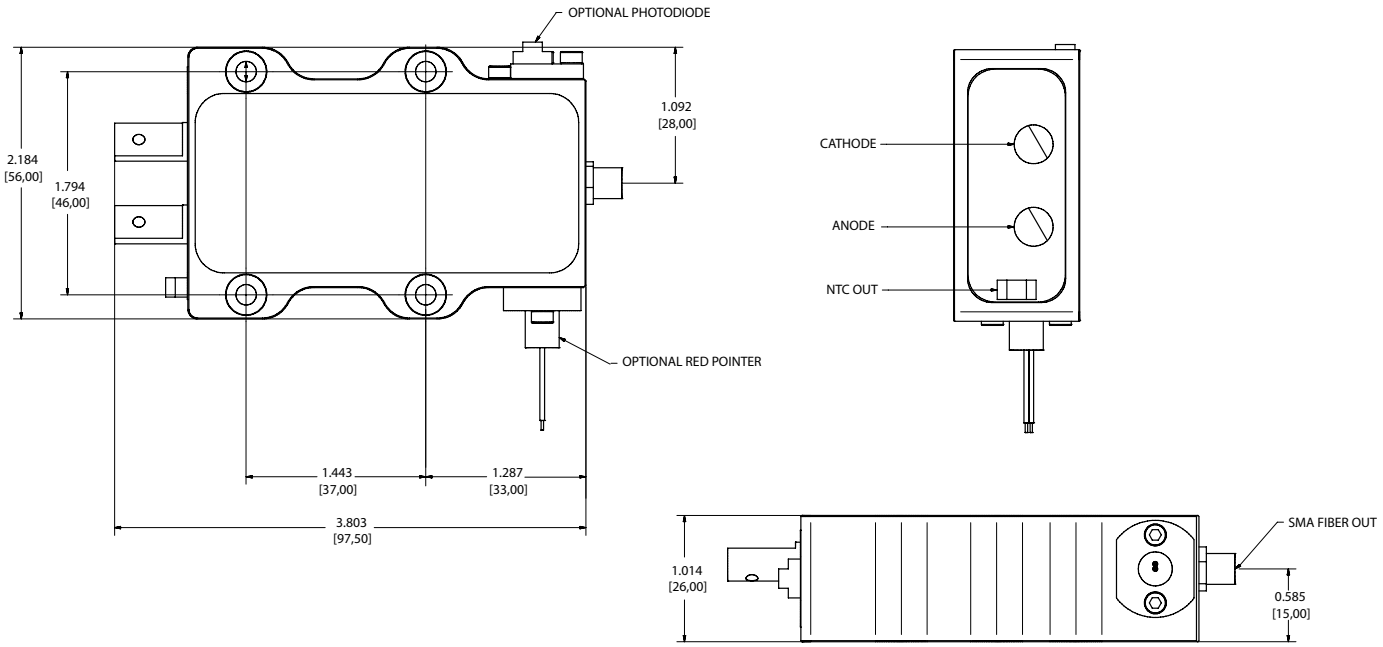
APPLICATIONS

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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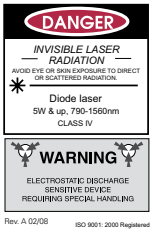

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ISO 9001: 2000 Registered