



FBLD-450-200W-FC200-20Pin

Fiber-coupled Laser Diode (Engineering Prototype)

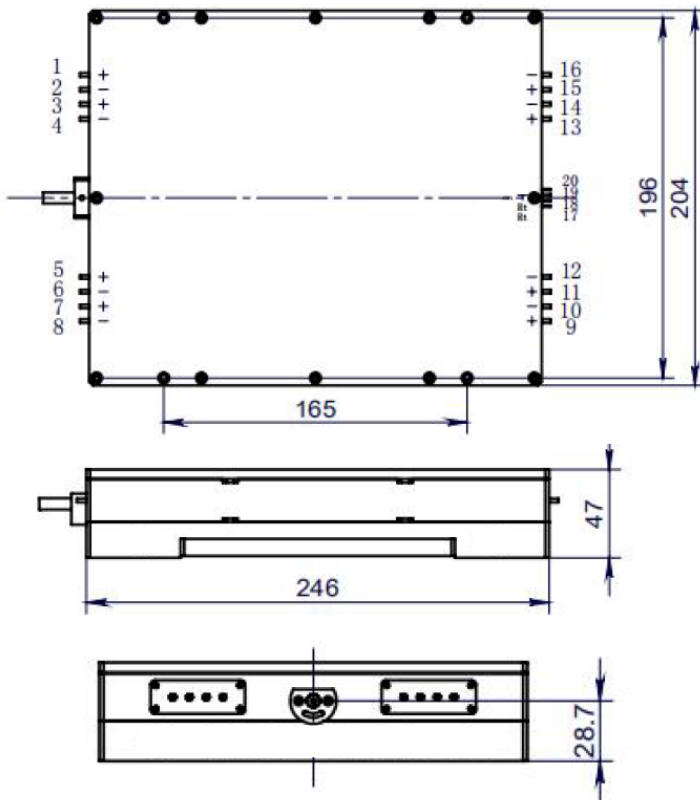
Features: Wavelength 450nm
 CW Output Power 200W
 Fiber Core Diameter 200µm / NA 0.22

Option: Thermistor

Specifications	Unit	Min	Typ	Max
Optical Data				
Total CW Output Power	W	200	-	-
Submodul CW Output Power	W	-	25	-
Number of Submodules	W	-	8	-
Center Wavelength λ	nm	440	450	460
Spectral Width (FWHM)	nm	-	6	-
Temperature Drift of λ	nm/°C	-	0.1	-
Fiber Data				
Core Diameter	µm	-	200	-
Cladding Diameter	µm	-	220	-
Numerical Aperture	NA	-	0.22	-
Fiber Length	m	-	2	-
Fiber Loose Tubing Diameter	mm	6 (Stainless Steel)		
Fiber Termination		SMA905		
Minimum Bending Radius	Mm	88	-	-
Electrical Data				
Threshold Current	A	-	0.3	-
Operation Current	A	-	2.5	2.8
Slope Efficiency	W/A	-	10	-
Electrical-to-Optical Efficiency	%	-	23	-
Operation Voltage	V	-	44	50
Power Supply Mode		-	8 Modules	-

Specifications	Unit	Min	Typ	Max
Temperature Conditions				
Operation Temperature	°C	15	-	30
Storage Temperature	°C	-20	-	70
Other Parameters				
ESD	V	-	-	500
Lead Soldering Temperature	°C	-	-	260
Lead Soldering Time	sec	-	-	10
Relative Humidity	%	15	-	75

Package Dimensions (mm)



Pin	Function	Pin	Function
1	LD(+)	11	LD(+)
2	LD(-)	12	LD(-)
3	LD(+)	13	LD(+)
4	LD(-)	14	LD(-)
5	LD(+)	15	LD(+)
6	LD(-)	16	LD(-)
7	LD(+)	17	Thermistor*
8	LD(-)	18	Thermistor*
9	LD(+)	19	-
10	LD(-)	20	-

*Optional function

The FBLD-450-200W-FC200-20Pin consist of 8 submodules (25W per module). Power can be supplied separately or in series.