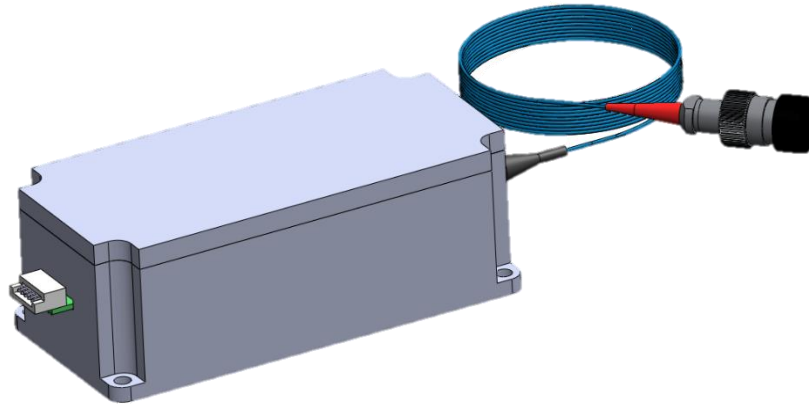


Specification Sheet | IsoBragg™
Fiber-Coupled and Optically Isolated Package



Description

The Photodigm IsoBragg™ is a new line of high-powered fiber-coupled optically isolated laser diode packages with superior power performance in a portable size. Leveraging the accuracy and precision of an edge-emitting Photodigm Distributed Bragg Reflector (DBR) laser diode, designed from its proprietary monolithic single-frequency Gallium Arsenide (GaAs) advanced laser technology. The IsoBragg™ package provides a single spatial mode beam coupled into a 1-meter-length polarization maintaining (PM) fiber affixed with an FC/APC male output connector.

Specifications

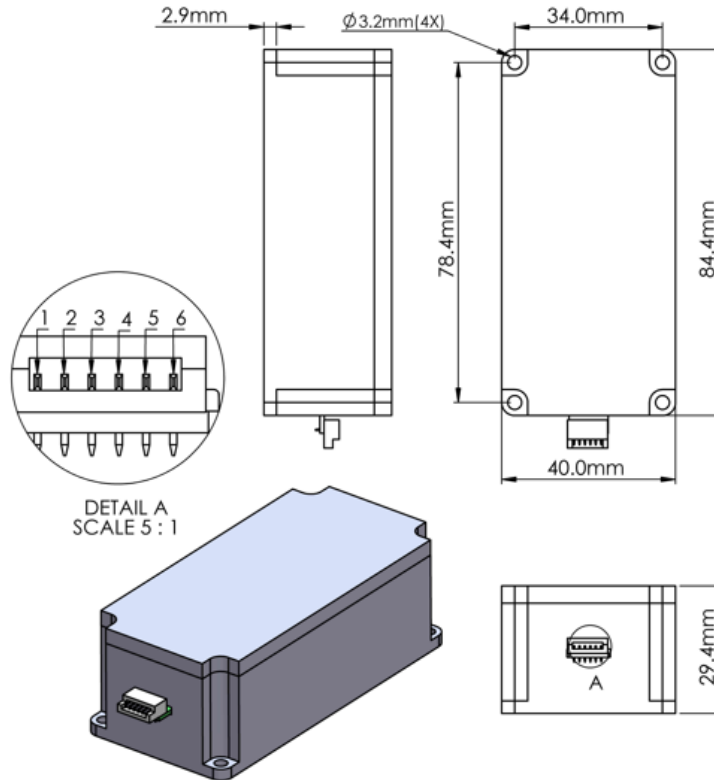
The IsoBragg™ features all the standard specifications of a Photodigm DBR Chip on Submount (CoS) package, with the following exceptions and additions:

Package

Parameter	Value			
Package	Aluminum 6061			
Dimensions (mm)	84.4 x 40.0 x 29.4			
Wavelength Range (nm)	1050 - 1080			
Parameter	Unit	Min	Typical	Max
Optical Isolation	dB	-	≥ 60	-
Power Range ¹	mW	30	-	170
Fiber Bend Radius	mm	25	-	-
Fiber Numerical Aperture	-	-	0.12	-
TEC Current	A	-1.9	-	1.9
TEC Voltage	V	-2.8	-	2.8
Thermistor Resistance	kΩ	-	10	-

1. Power range dependent upon chosen device architecture and wavelength

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Position	Terminal	Color
1	TEC (-)	Black
2	Laser Diode (+)	Yellow
3	Laser Diode (-)	Green
4	Thermistor (-)	Orange
5	Thermistor (+)	Red
6	TEC (+)	White

Note: Customer is expected to make connections from the wiring harness (drawing available upon request) to their laser diode and thermo-electric cooler (TEC) controller

Handling Precautions

These devices are sensitive to ESD. When handling the module, a grounded work area and wrist strap must be used. Always store in an antistatic container with all leads shorted together.



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