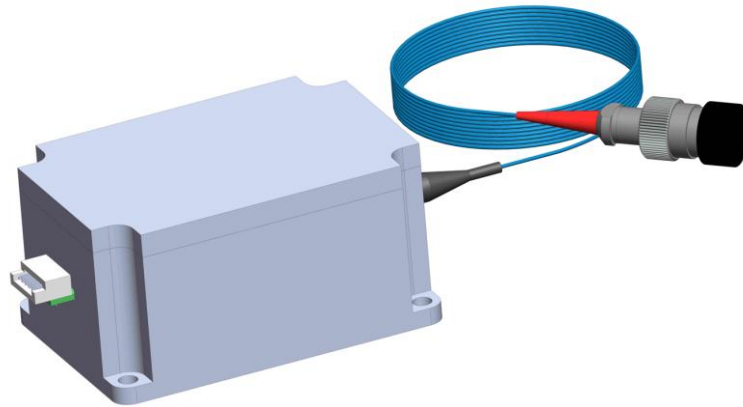


Custom | Specification Sheet | IsoBragg™

Fiber-Coupled and Optically Isolated Package



Description

The Photodigm IsoBragg™ is a groundbreaking innovation in fiber-coupled optically isolated laser diode packages with superior power performance in an ultra-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-long 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:

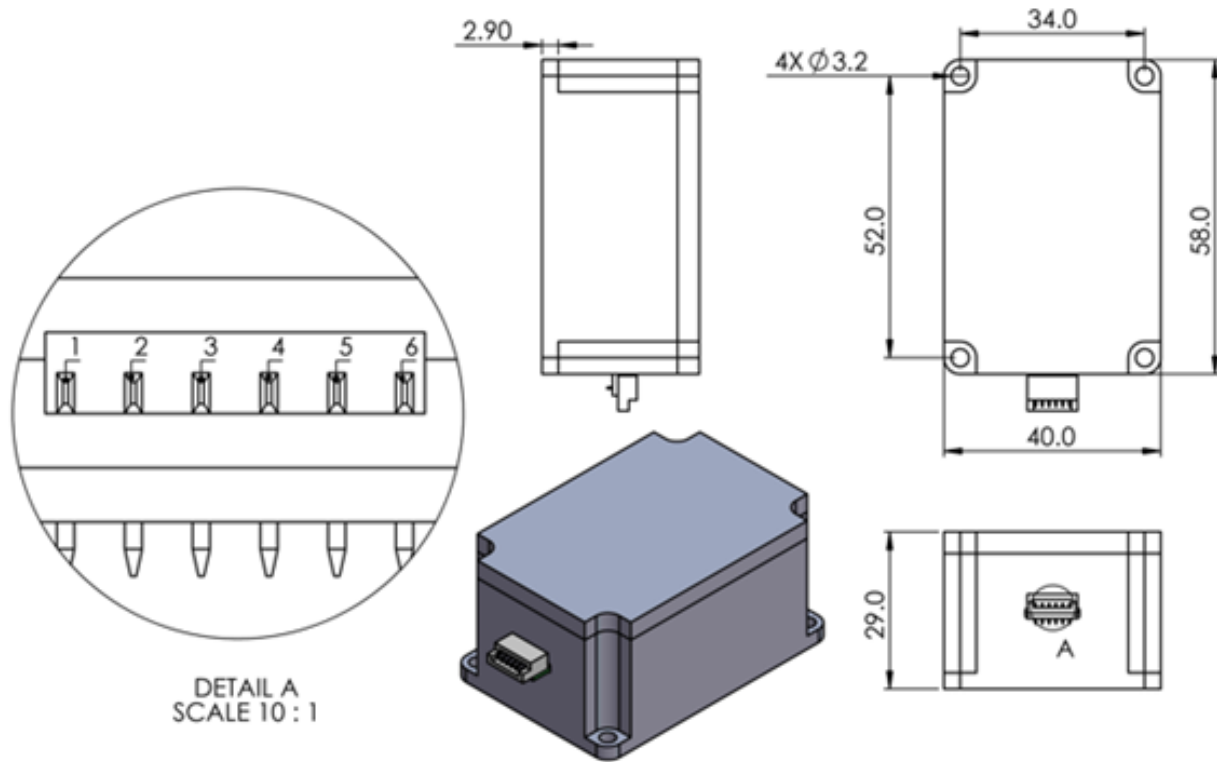
Package

Parameter	Value			
Package	Aluminum 6061			
Dimensions (mm)	58.0 x 40.0 x 29.0			
Wavelength (nm)	778-795			
Parameter	Unit	Min	Typical	Max
Optical Isolation	dB	-	≥ 30	-
Power Range ¹	mW	10	-	100
Max Operating Current	mA	-	-	250
Linewidth	kHz		500	
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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