

PB1480 EDFA Pump Laser Combiner

Description

The PB1480 pump laser combiner combines two orthogonal components of polarization into one output fiber, with very low insertion loss.

The standard configuration offers polarization maintaining (PM) fiber for the two inputs and regular single-mode (SM) fiber for the output.

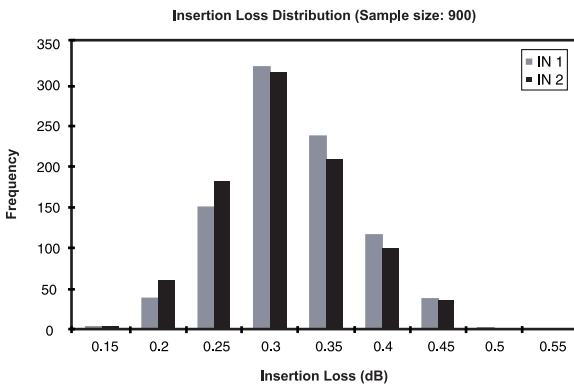
The PB1480 unit combines light from two pump lasers into a single fiber in order to almost double the input power to an erbium doped fiber amplifier (EDFA).



Key Features

- Very low insertion loss (typical 0.3 dB)
- Typical power gains of 2.7 dB for pump laser combining

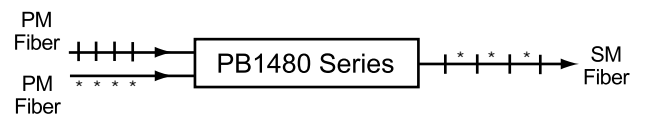
Typical Performance



Applications

- Combines light from two orthogonally polarized lasers
- Optical amplifiers as EDFAs
- Laboratory and field applications

Configuration



The symbols (| and *) represent the two orthogonal components of polarization.

Specifications

Parameter	Specification ¹
Wavelength range	1460 to 1490 nm
Excess loss	0.6 dB maximum, 0.3 dB typical
Return loss ²	50 dB minimum
Power handling	300 mW
Fiber type input	Fujikura Panda, 7/125/400 μ m, SM.13-P-7/125-UV/UV-400
Fiber type output	Corning SMF-28, 9/125/250 μ m
Fiber length	1.00 \pm 0.25 m
Dimensions (WxLxD)	11 x 38 x 6 mm
Operating temperature	0 to 70 °C
Storage temperature	-20 to 85 °C

1. The direction of linear polarization is aligned with slow axis of the fiber (axis through the stress rods). Please specify if alignment with the fast axis is required.
2. Excluding connector, with appropriate termination.

Note: These specifications are applicable over operating temperature unless otherwise specified.

Ordering Information

Custom designs are available. For more information on this or other products and their availability, please contact your local JDS FITEL representative, or JDS FITEL directly at (613)727-1303, or by fax at (613)727-8284 or via e-mail at sales@jdsfitel.com.

Part Number = PB1480

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