ERBIUM AMPLIFIER COMPONENTS

1480/1550 Pump Coupler

DiCon's 1480/1550 Pump Coupler is constructed using DiCon's Cylindrical Filter WDM packaging technology. The Pump Coupler uses a thin film filter mounted between a pair of GRIN lens collimators. DiCon's 1480/1550 Pump Coupler is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting on a printed circuit board or within a fiber amplifier module.



FEATURES

- Low insertion loss
- Suitable for forward or backward pumping
- Rugged environmentally stable package
- Tested to Telcordia GR-1209 and GR-1221

HPPLICATIONS

1480/1550 Pump Couplers are used to couple low power 1480 nm pump sources with C and L band transmission signals in erbium doped fiber amplifiers. 1480/1550 Pump Couplers can also be used to multiplex or demultiplex 1480 nm monitoring signals in 1550 nm WDM transmission systems.

U.S. patented. Specifications subject to change. Copyright ©2001 DiCon Fiberoptics, Inc. All rights reserved.



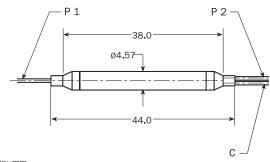
ERBIUM AMPLIFIER COMPONENTS

SPECIFICATIONS¹

Insertion loss C - P1	0.4 dB typ., 0.55 dB max.
Insertion loss C - P2	0.4 dB typ., 0.45 dB max.
Isolation C - P1	30 dB min.
Isolation C - P2	15 dB typ., 12 dB min.
Ripple C - P1	0.3 dB max.
Ripple C - P2	0.1 dB max.
Directivity	55 dB min.
Back-reflection	-50 dB max.
PDL	0.05 dB typ., 0.1 dB max.
Thermal stability	0.005 dB/°C max.
Optical power ²	300 mW max.
Fiber type	9/125 Corning SMF-28
Operating temperature	0°C to +65°C
Storage temperature	-40°C to +85°C

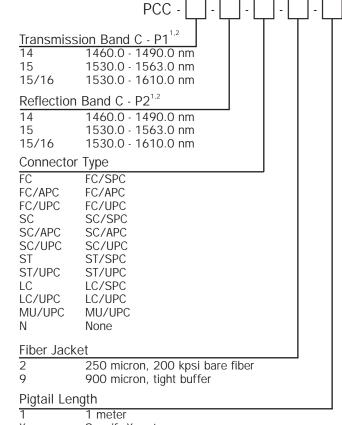
- 1. All specifications referenced without connectors.
- 2. For higher power levels, see Raman 14xx Pump Coupler pages 60 to 61.

HOUSING DIMENSIONS



1. Optional 38 or 40 mm housing lengths by request.

ORDERING INFORMATION¹



- Specify X meters
- 1. All wavelengths referenced to vacuum.
- 2. Other transmission and reflection bands available upon request

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