

WDM COMPONENTS

POLARIZATION BEAM COMBINER

DiCon's Polarization Beam Combiners are used to combine two 14xx nm pump laser modules with the same center wavelengths but orthogonal polarization states. Polarization Beam Combiners use a combination of polarizing crystals and collimating GRIN lens to couple the pump power with very low insertion loss and high extinction ratio.



FEATURES

- Very high power handling capability, greater than 1.5 Watts
- Low insertion loss over a wide 14xx window
- Proven packaging technology

APPLICATIONS

Polarization Beam Combiners are used to combine the power from two or more 14xx pump lasers in high power Raman or Erbium gain modules. They can be cascaded with Raman 14xx Pump Combiners to build gain modules which are pumped by up to 8 laser modules.



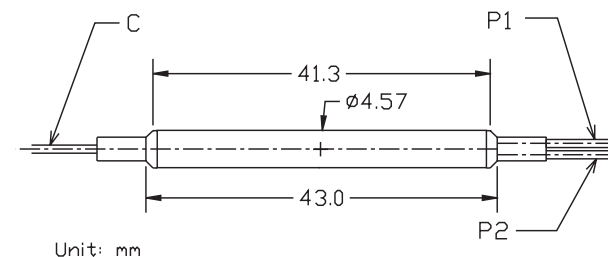
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SPECIFICATIONS¹

Wavelength range	1420 - 1500 nm
Insertion loss	0.6 dB max.
Directivity	60 dB min.
Back-reflection	-50 dB max.
Optical power	33 dBm max.
Extinction ratio	30 dB typ., 20 dB min.
Input fiber type	Fujikura 13-8/125-UV/UV-400
Input fiber jacket	400 micron, tight buffer
Output fiber type ²	9/125 Corning SMF-28
Output fiber jacket	250 micron, 200 kpsi bare fiber
Operating temperature	0°C to +65°C
Storage temperature	-40°C to +85°C

1. All specifications referenced without connectors.
2. Fujikura panda fiber available by special request.

HOUSING DIMENSIONS



Units: mm

ORDERING INFORMATION

