

(2+1)×1 Optical Fiber Combiner

MPC2-P12-S322-10-C3



The product is designed for High Power fiber laser. Unique tapering process is adopted to acquire good optical properties. The unput port includes two pump channels and one signal channel . The output port is double cladding fiber. The fiber type can be customized.

Characteristics

- High transmission efficiency
- High pump efficiency
- Small mode distortion
- Can be customized

Applications

- Optical fiber amplifier power coupling

Product Type	MPC2-P12-S322-10-C3
Signal Operating Wavelength (nm)	1000 – 1100 (typical 1064)
Pump Operating Wavelength (nm)	800 – 1000
Input Pump Port	
Core / Cladding Diameter (μm)	105 / 125
Numerical Aperture	0.22
Input Signal Port	
Fiber Type	DCF
Core / Cladding Diameter (μm)	10 / 130
Output Port	
Fiber Type	DCF
Core / Cladding Diameter (μm)	10 / 130

Optical Properties

Pump Efficiency (%)	> 90 (typical 93)
Insertion Losses (dB)	< 0.5 (typical 0.3)
Optical Isolation (dB)	≥ 25 (typical 30)
Max Pump Power	> 30

Environmental Properties

Operating Temperature (*C)	-5 to +70
Operating Relative Humidity (%)	5 – 95
Storage Temperature (*C)	-40 to +85

Mechanical Properties

Dimensions (mm)	5×5×50, φ3.5×54, 8×12×75
Active Fiber Length (m)	1.0