

Fibre Laser Component

(2+1)×1 Optical Fibre Combiner

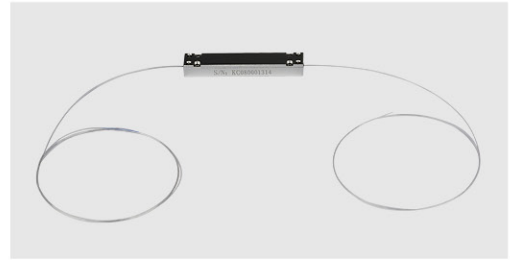
The product is designed for high power fibre laser. Unique tapering process is adopted to acquire good optical properties. The input port includes two pump channels and one signal channel, and the output port is double cladding fibre. The fibre type can be customized.

Characteristics

- High transmission efficiency
- High pump efficiency
- Small mode distortion
- Low insertion loss
- Can be customized

Applications

- Optical fibre amplifier power coupling



Specifications

Parameters	Index			
Product Type	MPC2-P12-S322	MPC2-P12-S333	MPC2-P12-S344	MPC2-P12-S355
Signal Operating Wavelength (nm)	1000 ~ 1100, Typical 1064			
Pump Operating Wavelength (nm)	800 ~ 1000			
Input Pump Port				
Core/Cladding Diameter (μm)	105/125		200/220	
Numerical Aperture	0.22		0.22	
Input Signal Port				
Fibre Type	DCF			
Core/Cladding Diameter (μm)	10/130	20/130	20/400	30/250
Output Port				
Fibre Type	DCF			
Core/Cladding Diameter (μm)	10/130	20/130	20/400	30/250
Optical Properties				
Pump Efficiency (%)	>90 (Typical 93)			
M ²	≤1.3			
Insertion Loss (dB)	<0.5 (Typical 0.3)			
Optical Isolation (dB)	≥25 (Typical 30)			
Max Pump Power (W)	Typical 10			
Environmental Properties				
Operating Temperature (°C)	-5 ~ +70			
Operating Relative Humidity (%)	5 ~ 95			
Storage Temperature (°C)	-40 ~ +85			
Appearance				
Dimensions (mm)	5×5×50, Φ3.5×54, 8×12×75			
Active Fibre Length (m)	1.0			