Chiral Photonics
Tel: 973-732-0030 sales@chiralphotonics.com

PSC611-HP High Power, Power-Signal Combiner, (6+1) x 1

The PSC611-HP is a high power, all-glass, pump-signal combiner that offers:

- Insertion loss of 0.3 dB or less on all channels
- Compatibility optimized for the following fibers:
  - LMA 20/400 (NA: 0.065/0.46) double clad signal fiber
  - 200/240 (NA:0.22) pump fibers
- Flexible and scalable design, based on Chiral's proprietary pitch reducing optical fiber array (PROFA) technology, with independent control of channel spacing, mode field diameter, and channel count.

*Please s**p**eak to us about your custom or OEM needs. The combiner can, for example, be supplied pre-spliced to your doped double-clad fiber of choice. The design can also be modified to suit your specific fiber needs:*

PSC611-HP Specifications

	PARAMETER	UNIT	SPECIFICATION
Signal Channel – Input	Input Fiber		LMA 20/400 (NA: 0.065/0.46) double clad fiber
	Insertion Loss	dB	≤ 0.3
Pump Channels	Number of Channels		6
	Pump Fiber		200/240 (NA: 0.22)
	Operating Wavelength	nm	800 - 1600
	Insertion Loss	dB	≤ 0.2
Dual Clad Output Fiber	Output Fiber		LMA 20/400 (NA: 0.065/0.46) double clad fiber
	Operating Wavelength	nm	1060 - 1600
Mechanical Specification	Package Type [1]	P	Packaged (typical: 150 x 6 x 6 mm)

[1] Standard package types that have been provided. Please speak to us about your custom package and splicing needs needs.

Coming Soon

PSC611-HP-PM High Power, PM Power-Signal Combiner, (6+1) x 1

The PSC611-HP is a high power, all-glass, pump-signal combiner that offers:

- Insertion loss of 0.3 dB or less on all channels
- Compatibility optimized for the following fibers:
  - PLMA 20/400 (NA: 0.065/0.46) double clad signal fiber
  - 200/240 (NA:0.22) pump fibers
- Flexible and scalable design, based on Chiral's proprietary pitch reducing optical fiber array (PROFA) technology, with independent control of channel spacing, mode field diameter, and channel count.

*Please s**p**eak to us about your custom or OEM needs. The combiner can, for example, be supplied pre-spliced to your doped double-clad fiber of choice. The design can also be modified to suit your specific fiber needs:*

PSC611-HP Specifications

	PARAMETER	UNIT	SPECIFICATION
Signal Channel – Input	Input Fiber		PLMA 20/400 (NA: 0.065/0.46) double clad fiber
	Insertion Loss	dB	≤ 0.3
Pump Channels	Number of Channels		6
	Pump Fiber		200/240 (NA: 0.22)
	Operating Wavelength	nm	800 - 1600
	Insertion Loss	dB	≤ 0.2
Dual Clad Output Fiber	Output Fiber		PLMA 20/400 (NA: 0.065/0.46) double clad fiber
	Operating Wavelength	nm	1060 - 1600
	PER [1]	dB	TBD
Mechanical Specification	Package Type [2]	P	Packaged (typical: 150 x 6 x 6 mm)

[1] Polarization extinction ratio

[2] Standard package types that have been provided. Please speak to us about your custom package and splicing needs needs.

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PSC611 Power-Signal Combiner, (6+1) x 1

The PSC611 is an all-glass, pump-signal combiner that offers:

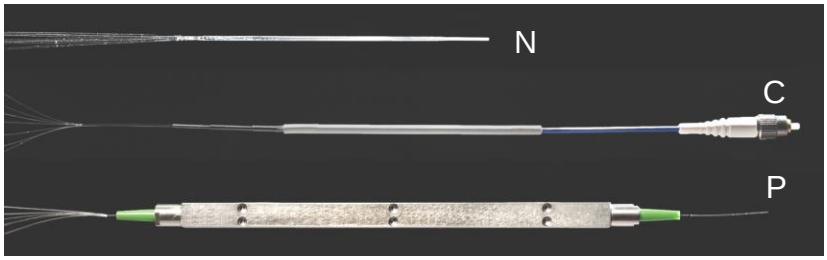
- Insertion loss less than 0.3 dB on all channels
- Polarization extinction ratio greater than 23 dB maintained through the signal channel
- Flexible and scalable design, based on Chiral's proprietary pitch reducing optical fiber array (PROFA) technology, with independent control of channel spacing, mode field diameter, and channel count.

PSC611-1550 Specifications

*Please s**p**eak to us about your custom or OEM needs as this design facilitates use at 1060 nm as well as the shown 1550 nm configuration. The design can also be modified to suit your specific fiber needs:*

	PARAMETER	UNIT	SPECIFICATION
Signal Channel – Input	Input Fiber		SMF28 or PANDA 1550 [1]
	Insertion Loss	dB	< 0.3
	Return Loss	dB	> 40
	PER [2]	dB	> 23
Pump Channels	Number of Channels [1]		6
	Pump Fiber [1]		105/125 µm core / cladding, NA: 0.12
	Operating Wavelength	nm	800 - 1600
	Insertion Loss	dB	< 0.3
Double Clad Output Fiber	Output Fiber [1]		6/125/245 µm core / clad / clad2, Er:Yb-doped, NA: 0.18 / 0.46
	Operating Wavelength [1]	nm	1530 - 1625
Mechanical Specification	Package Type [3]	N C P	None Connectorized Packaged (typical: 150 x 6 x 6 mm)

[1] Speak to us about other wavelength requirements as this design can accommodate both Er (1550 nm) and Yb (1060 nm) bands. Please let us know your input, output and pump fiber requirements and we will work with you to adapt an existing design or optimize a new design to your combining needs.



[2] Polarization extinction ratio, if PM fiber is used.

[3] Standard package types that have been provided. Please speak to us about your custom package and splicing needs needs.