

1.5μm Cladding Power Stripper

Key Features

- Low Insertion Loss
- High Power Handling
- High Power Absorption
- PM and Non-PM are available
- Fiber can be customized
- High Reliability
- Excellent Temperature Stability

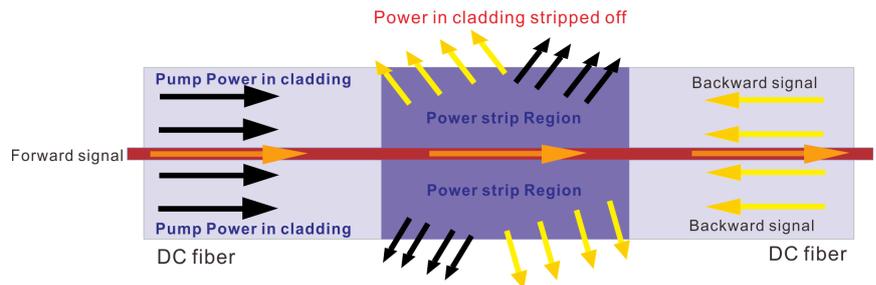
Applications

- Fiber amplifier and laser systems
- Cladding-mode-free high power beam delivery
- ASE stripping
- Industrial, Biomedical, Telecom, Metrology
- Life Science, Imaging, Quantum optics

Cladding Power Stripper is used in high-power fiber lasers and amplifiers need to be able to handle substantial optical powers. It needs to be ensured that these powers are absorbed in a sufficiently widespread region, and that the generated heat can be removed safely, without damaging the mode stripper or any surrounding parts.

In fiber laser, the pump energy is absorbed along with doped fiber, transforming into signal energy, but pump cannot be absorbed completely, the residual part in outer cladding is no need, even dangerous for downstream components, with CPS can effectively "strip off" residual pump and signal which transmit back in clad, meantime keep the amplified signal unaffected.

We can provide CPS with all kind of Double Clad fiber, cladding power up to 500W. If you do not see a standard CPS that meets your needs, we welcome the opportunity to review your desired specification and quote a custom CPS. Requests for custom fiber type, different wavelengths and handling power of operation or other specific needs will be readily addressed.



Performance Specifications

Parameters	Unit	Values
Center Signal Wavelength	nm	1550
Operating Wavelength-Pumps	nm	800~1000
Cladding attenuation(min)	dB	18~20
Type. Insertion Loss (at 25°C)	dB	0.05
Max. Insertion Loss (at 25°C)	dB	0.20
Cladding Power Handling(Stripping Power)	W	10, 20, 30...
Fiber Type In/Out	/	Double Clad fiber
Pigtail Length	m	0.8 or other
Operation Temperature	°C	0 ~ +50
Storage Temperature Range	°C	-20 ~ +75

For more Info

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1.5μm Cladding Power Stripper

General Configuration:

Working Wavelength(nm)	Input/output Fiber	Signal IL	Min. Stripping Efficiency	Max. Power Stripping
1530~1570	SM-GDF-1550	≤0.2dB	20dB	20W
1530~1570	12/130μm,NA0.20/0.46	≤0.2dB	20dB	50W
1530~1570	25/300μm,NA0.09/0.46	≤0.2dB	20dB	100W

Remark:

- * Other configuration can be customized. We can build CPS on every double clad fiber,
- * For stripping power ≥ 100W and some small core fiber CPS, will need water cooling.
- * All CPS default with DK Logo, bare fiber, 0.8m length of pigtail, please contact us for special request.
- * When we refer to CPS power, we generally refer to the power in the fiber cladding that CPS needs to strip off. This power needs to be dissipated or derived from the package. So please give the exact stripping power level you need.

Package Information

Package Type(Total strip power)	P2(<20W)	P3(<40W)	P4(<70W)	P5(<150W)	P6(<800W)
Dimensions (mm)	65x12x7	80x12x8	100x15x10	120x30x20	120x42x30 (Water cooling)

*Due to ongoing design improvements, the package size is subject to change. We will choose the appropriate package size according to different stripping power and fiber cladding. Please contact DK Photonics for confirmation.

Order information P/N: CPS-①-②-③-④

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④
Signal wavelength	Power Stripping	Fiber Type	Fiber Length
15:1550nm	10:10W	XXX (fiber code)	10:1.0m
XX: Other	20:20W		XX: Other
	30:30W		
	XX: Other		

Part Number Example: CPS-15-20-12/130/20D-10

Description: 1550nm Cladding Power Stripper - 20W Power Stripping, 12/130μm,NA0.20/0.46 fiber, with 1.0m length bare fiber pigtails.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.