

10xx nm High Power Tap Coupler

Description

Lightcomm 1x2 and 2x2 10xx nm high power tap couplers are used in fiber laser and amplifier systems to monitor both forward and backward power.

It can work under high power condition with exceptional low excess loss.

Features

- Low Excess Loss
- Low Insertion Loss and PDL
- High Power Handling
- High Stability and Reliability



Applications

- Fiber Lasers and Amplifiers
- Fiber sensor

Specifications

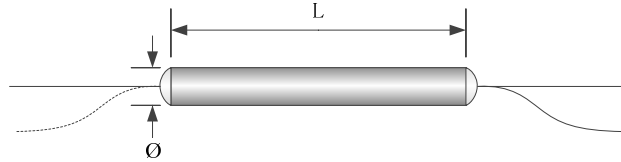
Parameter	Spec	Unit	Note
Center Wavelength λ_c	1030 ~ 1090	nm	Center wavelength must be specified, e.g. 1064nm, 1080nm etc.
Bandwidth	± 10	nm	
Typical Excess Loss	0.2	dB	
Insertion Loss*	1:99	17~23/0.3	Main signal port IL \leq 0.3dB, Tap port IL is not controlled
	0.1:99.9	27~33/0.3	
	0.01:99.99	35~45/0.3	
Directivity	≥ 50	dB	
Operating Temperature	-40 ~ +85	$^{\circ}\text{C}$	
Fiber Type**	Corning HI1060, HI1060FLEX or others	-	1m typical length
Handling Power	5~10	W	Depends on package type

* Insertion loss above measured without connector.

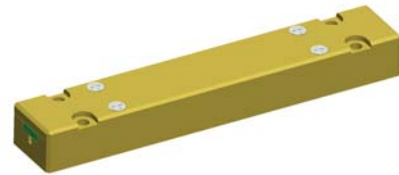
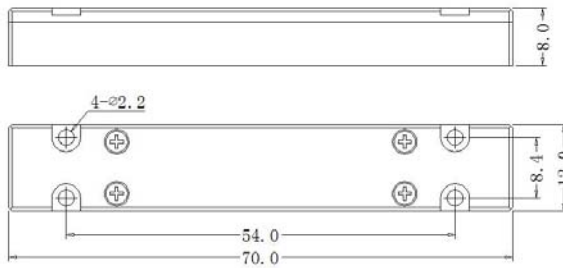
** Customized fiber available, e.g. 10/125 SCF fiber.

Package Dimensions

Ø3 x L54mm



70x12x8mm



Handling Power: Ø3 x L54 mm: 5W;
 70x12x8 mm: 10W、or more

Other package dimensions can be customized on request.

Ordering Information

HPSSC-1x2(or 2x2)-Center wavelength-Coupling ratio-Fiber-Pigtail-Package-Fiber length

Center wavelength: e.g. 1064nm, 1080nm etc.

Coupling ratio: e.g. 1/99, 0.1/99.9, 0.01/99.99, etc.

Fiber: e.g. HI1060, etc.

Pigtail: e.g. 900µm loose tube, etc.

Package: e.g. Ø3 x L54 mm, 70x12x8 mm.