

# HPFS-1550-□□-1×N

## 1550nm High Power Fiber Optical Splitter

### PRODUCT DESCRIPTION

HPFS-1550 series high power fiber optical splitter and adopt special process of fused bi-conical taper technology and good heat treatment. It can be applied by divided high performance and high reliability to multi-port optical power distribution of 1550nm high power laser light source. The maximum pass power is 50W (47dBm). The feature of the product is high stability, high uniformity, low polarization dependent loss and low excess loss.

HPFS-1550-10-1×N 1550nm, pass power is 10W(40dBm), 1×N.

HPFS-1550-20-1×N 1550nm, pass power is 20W(43dBm), 1×N.

HPFS-1550-50-1×N 1550nm, pass power is 50W(47dBm), 1×N.



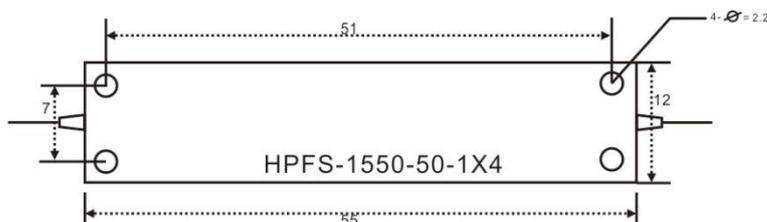
### PRODUCT FEATURE

- ▶ 50W High Power Handling.
- ▶ Low Insertion Loss.
- ▶ High Stability & Reliability.
- ▶ High Uniformity..

### MAIN APPLICATION

- ▶ CATV High Power Optical Amplifier.
- ▶ FTTx PON.
- ▶ High Power Fiber Laser.
- ▶ Medical and Biotech.
- ▶ Telecom munications.
- ▶ Fiber Optic Instrumentation.
- ▶ laboratory application.

### DIMENSIONS



## TECHNIQUE INDEX

Performance		Index			Supplement
		Min.	Typ.	Max.	
Operation Wavelength	(nm)	1530		1565	HPFS-1550
Ratio	(1xN)		1×2		HPFS-1550-□□-1×2
			1×3		HPFS-1550-□□-1×3
			1×4		HPFS-1550-□□-1×4
			1×5		HPFS-1550-□□-1×5
Pass Power	(W)			10	HPFS-1550-10
				20	HPFS-1550-20
				50	HPFS-1550-50
Insertion Loss	(dB)		3.1	3.2	1×2
			4.85	5.1	1×3
			6.3	6.4	1×4
			7.4	7.6	1×5
Uniformity	(dB)		0.06	0.1	1×2
			1.00	0.15	1×3
			0.15	0.20	1×4
			0.20	0.3	1×5
Polarization Dependent Loss	(dB)			0.02	1×2
				0.04	1×3
				0.05	1×4
				0.06	1×5
Directivity	(dB)	55			
Fiber length	(m)		1.0		
Fiber type		SMF-28.280μm			bare fiber
Operating Temp	(°C)	-40		80	
Storage Temp	(°C)	-40		85	

Size	(nm)	55×12×8	(L×W×H)
------	------	---------	---------

## PRODUCT SERIES

Model	operating wavelength	Max.Pass Power	Ratio	Insertion Loss	Uniformity
HPFS-1550-10 -1×2	1550nm	10W (40dBm)	1×2	≤3.2dB	≤0.1dB
HPFS-1550-10 -1×3			1×3	≤5.1dB	≤0.15dB
HPFS-1550-10 -1×4			1×4	≤6.4dB	≤0.2dB
HPFS-1550-10 -1×5			1×5	≤7.6dB	≤0.3dB
HPFS-1550-20 -1×2	1550nm	20W (43dBm)	1×2	≤3.2dB	≤0.1dB
HPFS-1550-20 -1×3			1×3	≤5.1dB	≤0.15dB
HPFS-1550-20 -1×4			1×4	≤6.4dB	≤0.2dB
HPFS-1550-20 -1×5			1×5	≤7.6dB	≤0.3dB
HPFS-1550-50 -1×2	1550nm	50W (47dBm)	1×2	≤3.2dB	≤0.1dB
HPFS-1550-50 -1×3			1×3	≤5.1dB	≤0.15dB
HPFS-1550-50 -1×4			1×4	≤6.4dB	≤0.2dB
HPFS-1550-50 -1×5			1×5	≤7.6dB	≤0.3dB

## ORDER INFORMATION

HPFS - 1550 - □□ - 1×□

Product type		Operating wavelength		Max. pass power		Ratio	
HPFS	High power fiber optical spllitter	1550	1550nm	10	10W	1×2	1×2
HPFC	High power fiber optical connector	1060	1060nm	20	20W	1×3	1×3
				50	50W	1×4	1×4
						1×5	1×5