

1×2 Single Mode Fiber Coupler Module

☆Description

XHP 1×2 single mode fiber coupler module features low insert loss, high return loss, low PDL, stable and reliable. It can be integrated into fiber communication network, fiber sense system, and fiber test equipment etc.



☆Specifications

Type		1×2 SSC		1×2 DWC			
Parameters							
Center wavelength(nm)		1310 / 1550 / others		1310、1550		1310、1550	
Wavelength range(nm)		±15		±40		±80	
Grade		P	A	P	A	P	A
Excess loss(dB)		≤0.07	≤0.10	≤0.07	≤0.10	≤0.07	≤0.10
Insert loss(dB)	50/50	≤3.40	≤3.60	≤3.60	≤3.80	≤3.80	≤4.00
	40/60	≤4.4 / 2.6	≤4.7 / 2.8	≤4.7 / 2.7	≤4.9 / 2.9	≤5.0 / 2.8	≤5.2 / 3.0
	30/70	≤5.7 / 1.9	≤6.0 / 2.0	≤6.0 / 1.9	≤6.3 / 2.1	≤6.4 / 2.0	≤6.7 / 2.2
	20/80	≤7.6 / 1.25	≤8.0 / 1.35	≤7.9 / 1.3	≤8.4 / 1.4	≤8.3 / 1.3	≤8.7 / 1.5
	10/90	9.2~11.0 /≤0.65	9.0~11.2 /≤0.80	9.2~11.2 /≤0.75	8.8~11.4 /≤0.80	9.5~11.05 /≤0.75	8.75~11.45 /≤0.80
	5/95	12.0~14.2 /≤0.40	11.75~14.45 /≤0.50	12.05~14.15 /≤0.40	11.60~14.60 /≤0.50	12.0~14.25 /≤0.45	11.50~14.70 /≤0.50
	2/98	15.7~18.5 /≤0.25	15.35~18.85 /≤0.35	15.75~18.45 /≤0.30	15.15~19.0 /≤0.40	15.60~18.60 /≤0.30	14.95~19.20 /≤0.40
	1/99	18.55~21.5 /≤0.20	18.15~22.0 /≤0.30	18.60~21.60 /≤0.25	17.95~22.25 /≤0.35	18.35~21.85 /≤0.25	17.60~22.55 /≤0.30
PDL (dB)		≤0.10	≤0.15	≤0.15	≤0.20	≤0.15	≤0.20
Return loss (dB)		≥55					
Operating temperature (°C)		-5~+70					
Storage temperature(°C)		-40~+85					

Type		1×2 TWC		1×2 WBC			
Parameters							
Center wavelength (nm)		1310, 1490, 1550		1310, 1550 or C+L		C or L	
Wavelength range (nm)		±40 (1490±10)		±40		1528~1565 or 1570~1605	
Grade		P	A	P	A	P	A
Excess loss(dB)		≤0.07	≤0.10	≤0.07	≤0.10	≤0.07	≤0.10
Insert loss (dB)	50 / 50	≤3.60	≤3.80	≤3.40	≤3.60	≤3.35	≤3.50
	40 / 60	≤4.7 / 2.7	≤4.9 / 2.9	≤4.4 / 2.6	≤4.7 / 2.8	≤4.4 / 2.55	≤4.6 / 2.7
	30 / 70	≤6.0 / 1.9	≤6.3 / 2.1	≤5.7 / 1.9	≤6.0 / 2.0	≤5.7 / 1.85	≤5.9 / 1.95
	20 / 80	≤7.9 / 1.30	≤8.4 / 1.40	≤7.6 / 1.25	≤8.0 / 1.3	≤7.55 / 1.25	≤7.8 / 1.3
	10 / 90	9.2~11.0 /≤0.75	8.8~11.40 /≤0.80	9.55~10.65 /≤0.65	9.3~10.9 /≤0.80	9.55~10.60 /≤0.65	9.35~10.85 /≤0.80
	5 / 95	12.05~14.2 /≤0.40	11.55~14.65 /≤0.50	12.4~13.80 /≤0.40	12.10~14.10 /≤0.50	12.45~13.75 /≤0.40	12.15~14.05 /≤0.45
	2 / 98	15.60~18.55 /≤0.30	15.00~19.20 /≤0.40	16.10~18.05 /≤0.25	15.70~18.45 /≤0.35	16.20~17.95 /≤0.25	15.80~18.35 /≤0.30
	1 / 99	18.45~21.7 /≤0.25	17.8~22.4 /≤0.35	19.05~21.15 /≤0.20	18.55~21.65 /≤0.30	19.10~21.10 /≤0.20	18.65~21.55 /≤0.30
PDL (dB)		≤0.15	≤0.20	≤0.10	≤0.15	≤0.10	≤0.15
Return loss (dB)		≥55					
Operating temperature (°C)		-5~+70					
Storage temperature(°C)		-40~+85					

☆Ordering Information

Part number	Note	Options
XXX	Part type	SSC / DWC / TWC/ WBC
X	Grade	P = P grade, A = A grade, S = customized
X	Port type	1 = 1×2, 2 = 2×2
XXXX	Center wavelength	1550 = 1550nm , 1310 = 1310nm , 1310/1550 = 1310nm/1550nm
XX	Coupling ratio	01 = 1/99, ... 05 = 5/95 ..., 50 = 50/50
X	Fiber	0 = SMF-28e, 2 = others
XXXX	Pigtail	250 = 250μm, 900 = 900μm, 2000 = 2.0mm, 3000 = 3.0mm
XX	Interface	FA = FC/APC, FU = FC/UPC, SA = SC/APC, SU = SC/UPC, LA = LC/APC, LU = LC/UPC, N = None
XXXX	Package size	PS1= 90×20×10mm

Example: XHP-DWCM -P-1-1310/1550-50-0-250-N-PS1