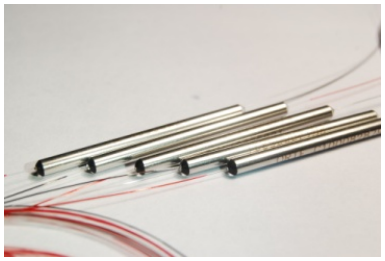
1×4/1×5 Monolithic Single Mode Coupler

Features

Low Excess Loss
Various Coupling Ratio
Compact Size

Applications

Long-haul Telecommunications
CATV Systems &Fiber optic Sensors
Local Area Network



OPTICAL SPECIFICATION

Configuration	Unit	1×4		1×5
Type		1×4/1×5 Monolithic Single Mode Coupler(MSMC)		
Operating Wavelength	nm	1310 or 1550	1310/1550	1310 or 1550
Operating Bandwidth	nm	±40	±40	±20
Coupler Ratio	%	25/25/25/25	25/25/25/25	20/20/20/20/20
Insertion Loss	dB	≤6.80	≤7.20	≤7.60
PDL	dB	≤0.20	≤0.30	≤0.20
Uniformity Loss	dB	≤1.00	≤1.20	≤0.80
Return Loss	dB	≥50.00		
Directivity	dB	≥55.00		
Operating Temperature	Deg.	-5-75		
Storage Temperature	Deg.	-40-85		
Fiber Length	m	1.00±0.10		
Fiber Type		Clear Curve® XB		
Fiber Diameter	um	250		900
Package	mm	3.0×54		4.0×65

NOTE: The parameters do not include connector, connector IL is 0.30dB
Can be customized uneven ratio products

Product Ordering Guide

MSMC	X	X	X	X	X	X	X
MSMC:	Configuration	Operating	Coupler	Fiber	Package	Fiber Type	Connector
Monolithic Single	4:1x4	Wavelength	Ratio	diameter	1:3.0×54	1:ClearCurve®	1:none
Mode Coupler	5:1x5	1:1310	1: even ratio	1:250um	2:4.0×65	XB	2:LC/UPC
		2:1550	2:other	2: 900um	3: other	2:other	3:LC/APC
		3: 1310/1550		3: other			4:SC/UPC
		4:other					5:SC/APC
							6:FC/UPC
							7:FC/APC
							8:other