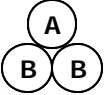
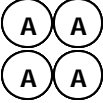


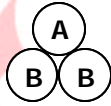
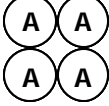
CPN1 Series: Single Mode standard monolithic Mx3, Mx4 Fused Couplers

Parameters	Performance (Excluding connectors)								
Center Wavelength λ_c , (nm)	1310, 1480, or 1550								
Operating Wavelength (nm)	$\lambda_c \pm 10$								
Configuration	Mx3: 1x3, 2x3, or 3x3				Mx4: 1x4 or 2x4				
	<p>The Output End of MxN Couplers</p>  <p>Mx3 Coupler A+B+B = 100%</p>				<p>The Output End of MxN Couplers</p>  <p>Mx4 Coupler (Even Only) A+A+A+A = 100%</p>				
Split Ratio, A (%)	90	80	70	60	50	40	33.3	25	
Split Ratio, B (%)	5	10	15	20	25	30	33.3	—	
Maximum Insertion Loss @ 25 °C (dB)	A	1.2	1.6	2.2	2.9	3.7	4.6	5.5	7.1
	B	13.7	10.7	8.9	7.9	6.9	5.9	5.5	—
Optical Directivity (dB)	= 55								
Maximum Optical Power Handling (mW)	500								
Operating temperature (°C)	-10 ~ 70								
Storage temperature (°C)	-40 ~ 85								
Fiber Type	Corning SMF28								
Package Dimension (mm)	—								
Bare Fiber	ϕ 3.0 x 60								
900 μ m Loose Tube	ϕ 4.0 x 68								
2mm or 3mm Jacket	96 x 16 x 6.4								

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Product Family: CPN Series

CPN	<p>Single mode MxN (N=3, 4) fused couplers operating in the 1310, 1480, or 1550 nm range. Products offered in single stainless steel compact mechanical packages</p>	<p>CPN1: Monolithic Mx3 and Mx4 couplers operate over $\lambda_c \pm 20$ nm.</p> <p>CPN2: Monolithic Mx3 and Mx4 couplers operate over $\lambda_c \pm 40$ nm.</p> <p>The split ratio at the output end is shown in the following diagram:</p> <p>The Output End of MxN Couplers</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Mx3 Coupler A+B+B = 100%</p> </div> <div style="text-align: center;">  <p>Mx4 Coupler (Even Only) A+A+A+A = 100%</p> </div> </div>
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Part Number for CPN Family



Wavelength
A=1310 nm
B=1480 nm
C=1550 nm

Configuration
13=1x3
23=2x3
33=3x3
14=1x4
24=2x4

Package Type
A=250 μ m bare fiber
B=900 μ m loose tube
C=3 mm jacket
D=2 mm jacket

Fiber Length
10=1.0 m
15=1.5 m
30=3.0 m
mn=m.n meters

Nominal Split Ratio
(See diagram below)

Connectors

Product Type

1 = standard
2 = wideband

Mx3:

05 = (B:5%, A:90%)
10 = (B:10%, A:80%)
20 = (B:20%, A:60%)
40 = (B:40%, A:20%)
EV = (B:33%, A:33%)

Mx4:

EV=Even (A=25%)

0=none
2=FC/UPC
3=FC/APC
4=SC/UPC
5=SC/APC
6=ST/UPC
7=LC/UPC
9=FC/SPC
A=FC/PC
B=SC/SPC
C=SC/PC
D=ST/SPC
E=ST/PC
F=LC/SPC
G=LC/PC
H=MU/UPC
I=MU/PC
J=LC/APC

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