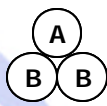
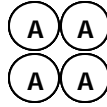


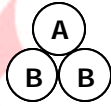
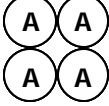
CPN2 Series: Single Mode Wide-band monolithic Mx3, Mx4 Fused Couplers

Parameters	Performance (Excluding connectors)									
Center Wavelength, λ_c , (nm)	1310, 1480, or 1550									
Operating Wavelength (nm)	$\lambda_c \pm 40$									
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	1.7	2.3	2.9	3.7	4.7	5.7	7.5	
	B	14.6	11.5	9.4	8.1	7.1	6.2	5.7	—	
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)	96 x 16 x 6.4									
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

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

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%)

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