

CPC1 Series: Single Mode Single Window Compact Fused Couplers

Parameters			Performance (Excluding connectors)														
Center Wavelength λ_c , (nm)			1310, 1480, 1550														
Operating Wavelength (nm)			$\lambda_c \pm 10$														
Configuration			1x2 or 2x2														
Split Ratio (%)			1	2	5	10	20	30	40	50	60	70	80	90	95	98	99
Insertion Loss@ 25°C (dB)	Max	P	21.5	18.5	13.5	10.5	7.3	5.6	4.4	3.4	2.4	1.8	1.2	0.68	0.45	0.26	0.24
		A	22.0	20.0	13.8	10.8	7.5	5.8	4.6	3.6	2.6	2.0	1.3	0.80	0.48	0.31	0.30
	Min	P	19.0	16.2	12.6	9.5	6.7	5.0	3.8	2.8	-	-	-	-	-	-	-
		A	18.7	15.5	12.4	9.4	6.6	4.8	3.6	2.6	-	-	-	-	-	-	-
Maximum PDL (dB)		P	0.25	0.25	0.20	0.14	0.14	0.14	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
		A	0.25	0.25	0.20	0.14	0.14	0.14	0.1	0.1	0.13	0.12	0.1	0.1	0.1	0.1	0.1
Maximum TDL (dB)			0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Optical Directivity (dB)			= 55														
Maximum Optical Power Handling (mW)			500														
Operating temperature (°C)			-10 ~ 70														
Storage temperature (°C)			-40 ~ 85														
Fiber Type			Corning SMF28 for other wavelengths														
Package Dimension (mm)																	
Bare Fiber			ϕ 3.0 x 34														
900 μ m Loose Tube			ϕ 3.0 x 42														
2mm or 3mm Jacket			60 x 12 x 6.4														

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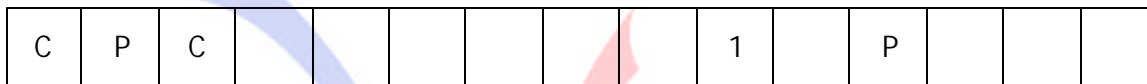
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Product Family: CPC Series

CPC	<p>Single mode 1x2 or 2x2 fused couplers operating in the 1310 nm, 1480 nm, and/or 1550 nm regions (Center wavelength = λ_c).</p> <p>Product offered in compact mechanical packages</p>	<p>CPC1: Single -mode compact couplers operate over ($\lambda_c \pm 10$) nm wavelength range.</p> <p>CPC2: Single -mode compact couplers operate over ($\lambda_c \pm 10$) nm wavelength range.</p> <p>CPC3: Single -mode compact couplers operate over dual wavelength windows (1310\pm40/1550\pm40 nm or 1480\pm40/1550\pm40 nm)</p>
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Part Number for CPC Family



Wavelength	Configuration	Split Ratio	Package Type	Fiber Length
A=1310 nm	12=1x2	50 = 50:50	A=250 μ m bare fiber	10=1.0 m
B=1480 nm	22=2x2	40 = 40:60	B=900 μ m loose tube	15=1.5 m
C=1550 nm		02 = 2:98		30=3.0 m
I=1310/1550 (CPC3 only)		01 = 1:99	C=3 mm jacket	mn=m.n meters
J=1480/1550 (CPC3 only)			D=2 mm jacket	

Product Type
 1 = standard
 2 = wide band
 3 = dual window

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

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