

CPC2 Series: Single Mode Single Window Wide-Band Compact Fused Couplers

| Parameters | | | Performance (Excluding connectors) | | | | | | | | | | | | | | |
|--------------------------------------|-----|---|-------------------------------------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|
| Center Wavelength λ_c , (nm) | | | 1310, 1480, 1550 | | | | | | | | | | | | | | |
| Operating Wavelength (nm) | | | $\lambda_c \pm 40$ | | | | | | | | | | | | | | |
| 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 | 14.0 | 10.8 | 7.3 | 5.6 | 4.4 | 3.4 | 2.4 | 1.8 | 1.2 | 0.68 | 0.45 | 0.28 | 0.24 |
| | | A | 22.0 | 20.0 | 15.0 | 12.0 | 8.0 | 6.0 | 4.6 | 3.7 | 2.8 | 2.0 | 1.4 | 0.80 | 0.50 | 0.31 | 0.30 |
| | Min | P | 19.0 | 16.2 | 12.6 | 9.4 | 6.6 | 5.0 | 3.8 | 2.7 | - | - | - | - | - | - | - |
| | | A | 18.7 | 15.5 | 11.7 | 8.7 | 6.2 | 4.7 | 3.6 | 2.5 | - | - | - | - | - | - | - |
| 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 | 0.16 | 0.15 | 0.14 | 0.13 | 0.13 | 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 36 | | | | | | | | | | | | | | |
| 900 μ m Loose Tube | | | ϕ 3.0 x 42 | | | | | | | | | | | | | | |
| 2mm or 3mm Jacket | | | 60 x 12 x 6.4 | | | | | | | | | | | | | | |

OptiWorks Inc., 44951 Industrial Drive, Fremont, CA 94538 Tel: +1 510 438 4560 Fax: +1 510 438 4470

Email: Sales@optiworks.com

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Product Family: CPC Series

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| 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> |
|-----|--|--|

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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