

CPS8 Series: Single Mode Dual Window Wide Band Fused Couplers with Low PDL

| Parameters | | Performance (Excluding connectors) | | | | | | | | | | | | | | | |
|--------------------------------------|-----|------------------------------------|------|------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|
| Center Wavelength λ_c , (nm) | | 1310/1550, 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 | 23.0 | 20.0 | 15.0 | 11.5 | 8.0 | 6.0 | 4.7 | 3.6 | 2.8 | 2.0 | 1.5 | 0.7 | 0.5 | 0.3 | 0.26 |
| | | A | 24.0 | 21.0 | 16.0 | 12.0 | 8.2 | 6.4 | 5.0 | 3.9 | 2.9 | 2.1 | 1.6 | 0.90 | 0.60 | 0.35 | 0.30 |
| | Min | P | 18.5 | 16.0 | 12.5 | 9.3 | 6.5 | 4.9 | 3.7 | 2.6 | | - | - | - | - | - | - |
| | | A | 18.3 | 15.1 | 11.5 | 8.7 | 6.2 | 4.4 | 3.3 | 2.4 | | | | | | | |
| Maximum PDL (dB) | P | 0.15 | 0.15 | 0.15 | 0.12 | 0.12 | 0.1 | 0.1 | 0.07 | 0.07 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | |
| | A | 0.18 | 0.18 | 0.15 | 0.12 | 0.12 | 0.1 | 0.1 | 0.08 | 0.08 | 0.07 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | |
| Maximum TDL (dB) | | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 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 | | | | | | | | | | | | | | | |
| Package Dimension (mm) | | | | | | | | | | | | | | | | | |
| Bare Fiber | | ϕ 3.0 x 54 | | | | | | | | | | | | | | | |
| 900 μ m Loose Tube | | ϕ 3.0 x 60 | | | | | | | | | | | | | | | |
| 2mm or 3mm Jacket | | 96 x 12 x 6.4 | | | | | | | | | | | | | | | |

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