CPS3 Series: Single Mode Dual Window Wide-Band Fused Couplers

Parameters			Performance (Excluding connectors)													
Center Wavelength λc, (nm)			1310/1550, 1480/1550													
Operating Wavelength (nm)			λc ± 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	0.9	0.6	0.35	0.30
	Min	P	18.3	15.8	12.5	9.3	6.5	4.9	3.7	2.6	-	-	-	-	-	-	-
		A	18.0	15.1	11.5	8.7	6.2	4.4	3.3	2.4	-	-	-	-	-	-	-
Maximum PDL (dB)		P	0.25	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
		A	0.25	0.25	0.25	0.20	0.18	0.16	0.15	0.15	0.13	0.12	0.1	0.1	0.1	0.1	0.1
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)			Bare fiber, 900 µm loose tube, 3mm or 2mm packages:-10~70 Polaxar™ packages: -40 ~ 80													
Storage temperature (°C)			-40 ~ 85													
Fiber Type			Corning SMF28													
Package Dimension (mm)																
Bare Fiber			ϕ 3.0 x 54													
900 µm Loose Tube			ϕ 3.0 x 60													
2mm or 3mm Jacket			96 x 12 x 6.4													
Polaxar™			100 x 12 x 6.4 (Cable length 1m only)													

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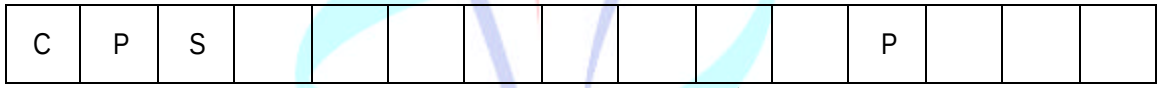
Product Family: CPS Series

Product Family Code	Description	Product Derivatives
CPS	Single mode 1x2 or 2x2 fused couplers operating in the 980 nm, 1310 nm, 1480 nm, and/or 1550 nm regions (Center wavelength = λc)	CPS1: Single-mode single-window couplers operate over (λc ± 10) nm wavelength range. CPS2: Single-mode single-window couplers operate over (λc ± 40) nm wavelength range. CPS3: Single-mode couplers operate over dual wavelength windows (1310±40/1550±40 nm or 1480±40/1550±40 nm). CPS7: Single-mode single-window couplers operate over (1310 ± 10) nm or (1550 ± 10) nm wavelength ranges with low PDL at both output ports CPS8: Single-mode couplers operate over dual wavelength windows (1310±40/1550±40 nm or 1480±40/1550±40 nm) with low PDL at both output ports

Part Number for CPS Family



Product Type
1 = standard
2 = wide band
3 = dual window
7 = wide band low PDL
8 = dual window low PDL

Wavelength
A=1310 nm
B=1480 nm
C=1550 nm
E=980 nm (CPS1)
I=1310/1550 (CPS3 and CPS8 only)
J=1480/1550 (CPS3 and CPS8 only)

Configuration
12=1x2
22=2x2

Split Ratio
50 = 50:50
40 = 40:60
30 = 30:70
20 = 20:80
10 = 10:90
05 = 5:95
02 = 2:98
01 = 1:99

Fiber Type
All wavelengths except 980nm
1 = SMF-28
980nm wavelength
3 = Flexcor 1060

Package Type
A=250 µm bare fiber
B=900 µm loose tube
C=3 mm jacket
D=2 mm jacket
E=3mm Polaxar™
F=2mm Polaxar™

(Option E and F not applicable to CPS7 and CPS 8)

Fiber Length
10=1.0 m
15=1.5 m
30=3.0 m
mn=m.n meters
10 Only for Polaxar™ package

Connectors
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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