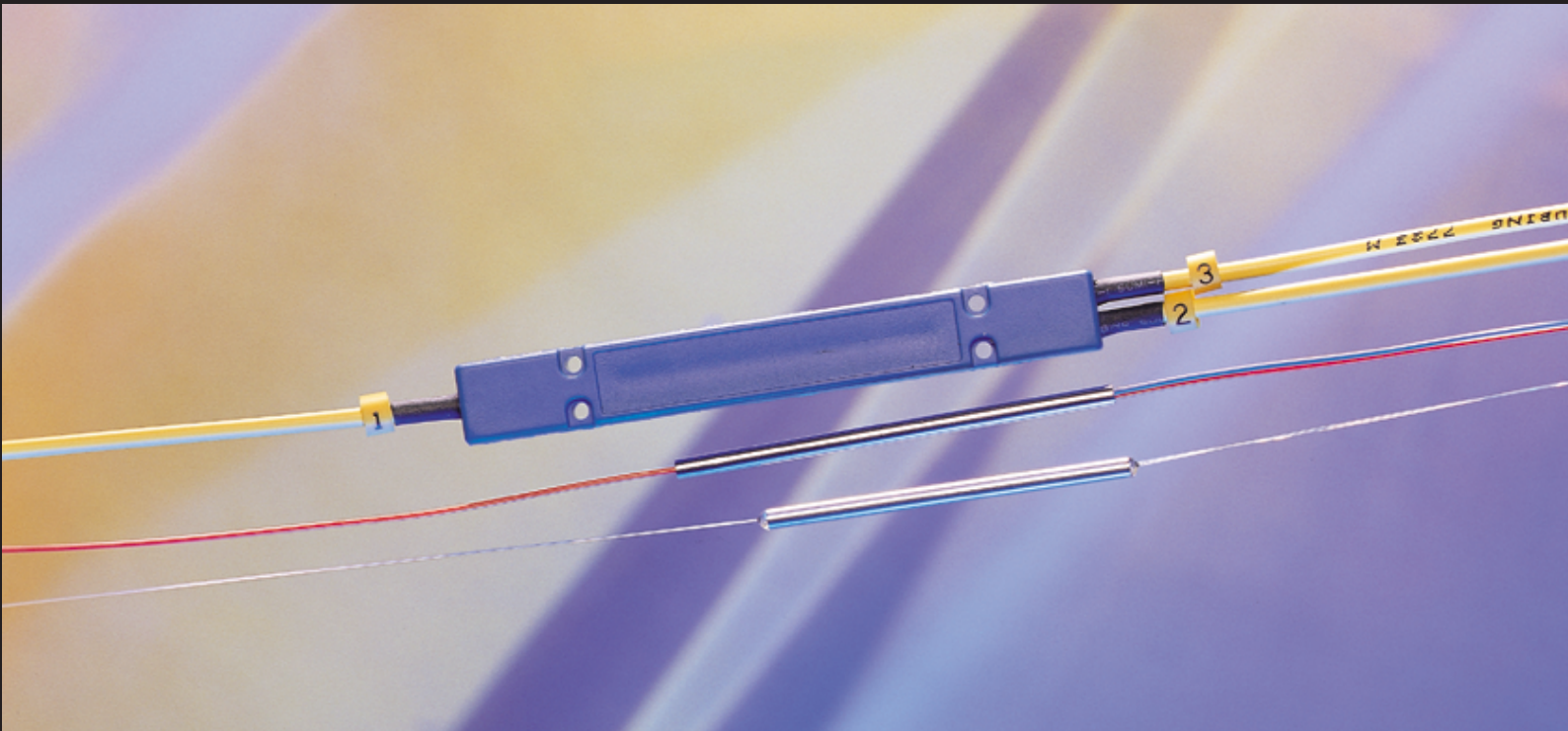


(C + L Band) 1X2, 2X2

Broadband Single Window Coupler

C05-0002-3.2



DESCRIPTION

Browave’s single mode single window broadband (C+ L band) couplers are fabricated with tape fusing technology, combine or split light with low loss and high performance. A wide,80nm bandwidth can be achieved with a highly automated process .

The (C+ L band) wideband couplers are operated at 1570nm wavelength range and are available with coupling ratio ranging from 50:50 to 1:99.

FEATURES

- » Low insertion loss
- » Low excess loss
- » Excellent uniformity
- » Low PDL
- » High directivity
- » Environmentally stable and reliable
- » Wide wavelength rang
- » Bellcore compliant

APPLICATIONS

- » CATV
- » Telecommunication
- » FTTH
- » Local area networks
- » Subscriber loop
- » Test equipment

SPECIFICATIONS

(50:50 COUPLING RATIO)

Parameter	Specification
Operating Wavelength	1570 ± 40
Maximum Insertion Loss	3.30 dB
Typical Excess Loss	0.10 dB
Maximum Uniformity	0.50 dB
Maximum Polarization Dependent Loss	0.10 dB
Minimum Directivity	50 dB
Maximum Thermal Stability	0.25 dB
Operating Temperature	-40°C to + 85°C
Storage Temperature	-50°C to + 85°C
Package Dimensions*	Package:1S,2S,3S,5L,6L,7H

*Dimension refer to ordering information

QUALIFICATION AND RELIABILITY TEST

Type of Test	Conditions	Duration
Damp Heat	75°C and 90% RH	2500 hours
High Temperature Storage (Dry Heat)	85°C and 30% RH	2500 hours
Low Temperature Storage	-40°C	2500 hours
Water Immersion	43 ± 2°C, PH 5.5 ± 0.5	340 hours
Vibration	10~2,000 Hz random, 20G	3 axes, 12 hrs per axis
Side Pull	227g (0.5 lb) load 90° active	-
Impact	0.3 meter high	8 drops
Cable Retention	454 g load (1 lb)	1 min

COUPLING RATIO/INSERTION LOSSCONVERSION CHART

Coupling Ratio	Premium
50/50	3.30/3.30
40/60	4.40/2.50
30/70	5.60/1.80
20/80	7.40/1.10
10/90	10.00/0.75
5/95	14.00/0.40
1/99	21.00/0.20

COUPLING RATIO / PDL CONVERSION CHART

Coupling Ratio	Premium
50/50	0.10/0.10
40/60	0.10/0.10
30/70	0.10/0.10
20/80	0.10/0.10
10/90	0.15/0.10
5/95	0.15/0.08
1/99	0.20/0.05

ORDERING INFORMATION

