



Monolithic 4x4 Optical Fiber Couplers

High performance 4x4 couplers in the 1300nm & 1550nm wavelength regions.

FEATURES:

- Low excess loss
- High directivity
- Low PDL
- Good environmental stability
- High return loss

APPLICATIONS:

- Power splitting
- Optical fiber sensors
- Optical fiber networks

The Phoenix Photonics range of fused fiber couplers has been developed to offer the designer flexibility in optimizing system performance. The proven FBT technology base has been utilized to optimize specific device parameters, reflected in the specific product categorization. Parameters that can be selected through the choice of appropriate device are; coupling ratio, insertion loss, wavelength flatness, polarization stability and center wavelength.

Monolithic 1x4 and 4x4 couplers

These couplers are fabricated by fusing four fibers together to couple power input from any one fiber equally between the four output fibers. The fused, monolithic configuration provides optimum loss performance and environmental stability in a range of application areas.

SPECIFICATION:	Units	4x4 and 1x4 monolithic couplers
Wavelength	nm	1310 or 1550
Bandwidth	nm	+/-20
Splitting Ratio	%	25/25/25/25
Grade		A
WDL	dB	+/-0.30
PDL	dB	<0.10
Directivity	dB	>50
Insertion Loss ¹ (Typ.)	dB	7.0
Insertion Loss ¹ (Max.)	dB	7.2
Uniformity	dB	<1.5
Temperature Stability	dB/°C	0.002
Operating Temperature	°C	-40 to +85
Storage Temperature	°C	-40 to +85

Lead Type	250µm	900µm loose tube	3mm cable
Package Dimensions ²	4mm dia. x48mm	3.5mm dia. x 66mm 90mmx16mmx9mm	90mmx16mmx9mm

Notes:

1 Insertion loss without connectors

2 Dimensions may vary slightly, please confirm with our representative

PRODUCT ORDERING INFORMATION:

