

Monolithic 3x3 Optical Fiber Couplers

High performance 3x3 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 gyroscopes
- 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 3x3 couplers

These couplers are fabricated by fusing 3 fibers together to couple power input from any one fiber equally between the three output fibers. The fused, monolithic configuration provides optimum loss performance and environmental stability in a range of application areas.

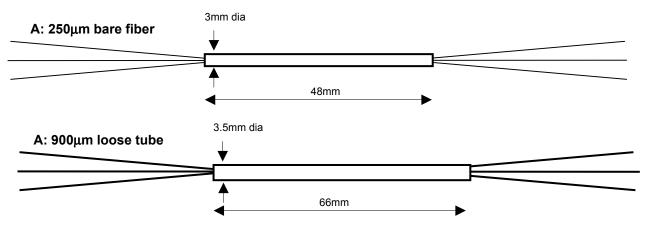


SPECIFICATION:	Units	3x3 monolithic couplers		
Wavelength	nm	1310 or 1550		
Bandwidth	nm	+-20		
Splitting Ratio	%	33/33/33		
Grade		P	Α	
Excess Loss (Typ.)	dB	0.10	0.15	
PDL	dB	<0.10	<0.15	
Directivity	dB	>55	>50	
Insertion Loss ¹ (Typ.)	dB	4.9	5.0	
Insertion Loss ¹ (Max.)	dB	5.4	5.6	
Uniformity	dB	1.0	1.2	
Flatness	dB	0.5/0.3/0.3		
Temperature Stability	dB/°C	0.003		
Operating Temperature	°C	-40 to +85		
Storage Temperature	°C	-40 to +85		

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

PACKAGE STYLE:

Package style A, stainless steel tubing

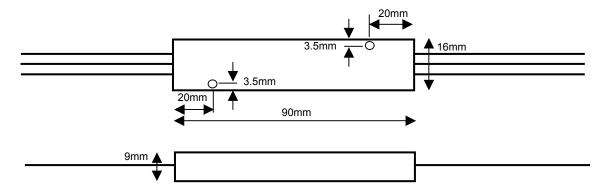


Notes: 1 Insertion loss without connectors



Package style B, rectangular cross section plastic package with throughput fibres.

B: 900µm loose tube or 3mm cable



PRODUCT ORDERING INFORMATION:

