

Polarization Maintaining Fused Couplers 1310nm and 1550nm wavelength ranges

High performance polarization maintaining couplers and taps in 1x2 and 2x2 fiber configuration



FEATURES:

- Low excess loss
- High directivity
- High polarization isolation
- High power handling
- High return loss

APPLICATIONS:

- Power splitting
- Power monitoring
- Optical fiber sensors
- Fiber optic gyroscopes
- PM EDFA

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. The polarization maintaining couplers give good loss performance whilst preserving the integrity of the input on-axis polarization state.

All of the coupler options offer very low excess loss, good polarization isolation, and are available in a range of coupling ratios from 1% to 50% and have 1x2 or 2x2 configuration.

SPECIFICATION:	Units	1x2 or 2x2 Port Couplers	
Grade		P	A
Wavelength ¹	nm	1310 or 1550	
Bandwidth	nm	+-20	
Excess Loss	dB	0.2 (typ):0.4 (max)	0.3 (typ.): 0.6 (max)
Polarization isolation ²	dB	20	17
Operating Temperature	°C	0 to +70	
Storage Temperature	°C	-40 to +85	
Directivity	dB	>55	
Fiber type		PANDA	
Fiber lead lengths	mm	500	
Dimensions	mm	60 x 3 dia	

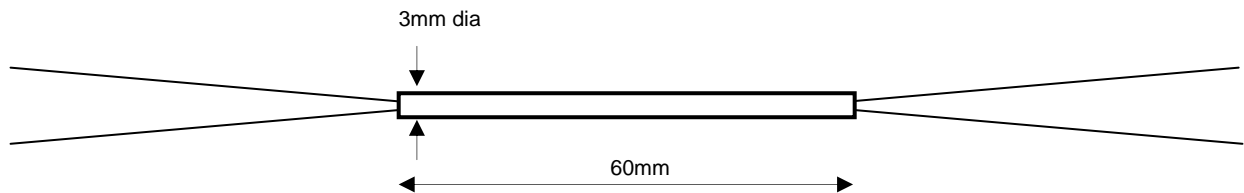
Notes:

- 1 Center wavelength can be tailored to customer requirements
- 2 Polarization isolation also termed extinction ratio is the measure of the ability of the coupler to maintain the linear state of polarization launched on to the slow axis of the coupler.
- 2 All specifications are for polarization state on the slow axis and measured @ 25°C
- 3 Specifications on this product are being developed further and may change, please ensure that this is the latest available from the website.

Splitting ratio	Maximum splitting ratio tolerance (%)	
	P	A
99/1	+-0.5	+-0.6
95/5	+-1.5	+-1.7
90/10	+-2.2	+-2.4
80/20	+-2.5	+-3.0
70/30	+-3.0	+-3.7
60/40	+-4.0	+-4.8
50/50	+-5.0	+-6.0

PACKAGE STYLE:

Stainless steel tubing



PRODUCT ORDERING INFORMATION:

Note: Not all options below may not be available in all coupler types, please check with our sales representative, to ensure your specific requirements can be met.

