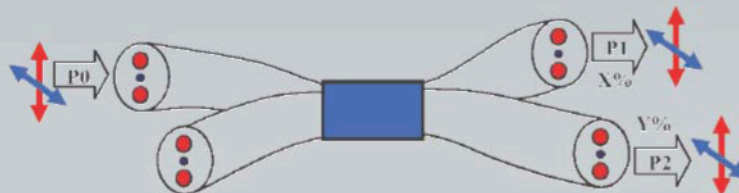


POLARIZATION MAINTAINING COUPLERS

Gould's truly fused polarization maintaining (PM) fiber optic couplers/splitters offer high extinction ratio with polarization launch into a single or dual axis (Slow axis & Fast axis). Gould utilizes our proven Fused Biconical Taper (FBT) process to manufacture polarization maintaining couplers including single color and wavelength flattened (WFC).



Features

- Low Loss
- Low Back-Reflection
- Small Size
- High Extinction Ratio With Polarization Launch Into a Single or Dual Axis (Slow & Fast)
- Very Low Polarization Dependent Loss.
- Made in U.S.A. on Gould's Proven High Reliability Fused Biconical Taper (FBT) Process

Applications

- Defense
- Gyroscope
- Telecom
- Medical
- Sensors

Single Wavelength (UV to IR) PM Splitters Specifications

Parameter	Dual Axis (D)		Single Axis (S)		
	Series 1	Series 2	Series 3	Series 4	
Axis	Slow & Fast		Slow ¹		
Min. Extinction Ratio (dB)	20	18	20	18	
Typ. Extinction Ratio (dB)	25	20	25	20	
Typ. Excess Loss (dB)	≤0.3	≤0.5	≤0.3	≤0.5	
Wavelength (nm)	UV to IR ²				
Operating Temperature (°C)	0 to +70				
Storage Temperature (°C)	-40 to +85				
Thermal Stability (dB)	≤0.3				
Directivity (dB)	≥40 (1x2), ≥65 (2x2)				
Fiber	PANDA (Various suppliers)				
Package Style	11, 17, or repackaged in 22 or 25				
Coupling Ratio/ Insertion loss Chart					
		Insertion Loss ⁴ (IL) (dB)			
Coupling Ratio (CR) ³	50/50	3.5	3.7	3.5	3.7
	10/90	11/0.8	11.3/1.0	11/0.8	11.3/1.0
	5/95	14.2/0.5	14.5/0.7	14.2/0.5	14.5/0.7
	1/99	23.3/0.3	23.7/0.7	23.3/0.3	23.7/0.7
1. Fast Axis available upon request 2. Upon availability of PM fiber 3. CR tested at Slow Axis 4. IL tested at 25°C at Slow Axis					

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Specifications are based on non-connectorized products. For connectorized specifications, please call sales for details. Custom optical & mechanical configurations are available upon request.

