

1x2 (2x2) Fused PM Splitter

1x2 (2x2) Fused PM Splitter

OPTRONICS

The fibre range of PM fused fibre splitters 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 product categorisation. The polarization maintaining couplers give excellent 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.



Applications

- ▶ Optical Amplifier
- ▶ Power Monitoring
- ▶ Coherent Communication
- ▶ Fibre Gyroscope

Features

- ▶ Low Excess Loss
- ▶ High Extinction Ratio
- ▶ High Power Handling
- ▶ Qualified to GR-1209 Telcordia standards

Packaging and Capability

The FibreFab range of couplers are fabricated in a world class manufacturing facility fully equipped with clean rooms and cutting edge fabrication equipment. This facility has the capability to manufacture over 1M couplers per annum.

FibreFab splitters are available with various packaging options and a variety of connector options to meet customer requirements.

Specifications

Parameter			Splitting Ratio	Tolerance (%)
Port Configuration	Content	1x2 or 2x2	99/1	±0.5
Central wavelength	Content	1310, 1480, 1550	95/5	±1.5
Bandwidth	nm	±20	90/10	±2.2
Excess loss typical	dB	0.2	80/20	±2.5
Excess loss maximum	dB	0.4	70/30	±3.0
Polarization Extinction ratio	dB	20	60/40	±4.0
Return loss	dB	50	50/50	±5.0
Directivity	dB	55		
Operating power	W	2		
Operating Temperature	°C	-40 to 85		
Storage Temperature	°C	-50 to 85		
Package Type	mm	length 54mm and diameter 3mm		