

1x3 and 3x3 FBT PM Splitter

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OPTRONICS

The FibreFab 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 for power monitoring, amplifiers and PM telecom systems. The polarization maintaining couplers give excellent loss performance whilst preserving the integrity of the input on-axis polarization state. All coupler options offer very low excess loss, good polarization isolation, and are available in a range of splitting ratios.



Applications

- ▶ Optical Amplifier
- ▶ Power Monitoring
- ▶ Telecom Communication
- ▶ Testing equipment

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		
Port Configuration		1x3 or 3x3
Central wavelength	nm	1310, 1480, 1550
Bandwidth	nm	±20
Excess loss typical	dB	0.3
Excess loss maximum	dB	0.5
Polarization Extinction ratio	dB	20
Return loss	dB	50
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 3

Splitting Ratio	Tolerance (%)	
	Main port	Tap port
0.5/88/0.5	±0.4	±0.2
1/98/1	±0.6	±0.4
2.5/95/2.5	±1.5	±0.8
5/90/5	±2.0	±1.2
10/80/10	±2.5	±1.5

Configurations

