

# Function of 3x3 Fiber Optic Coupler

The performance of fiber optic interferometers constructed with 3x3 couplers is investigated. Deviations from ideal behavior are noted at low fringe visibilities.

Splitters and couplers divide optical inputs into multiple outputs, or combine multiple inputs into one or more outputs. ACP offers a wide variety of splitters/couplers, such as our 1x4 Singlemode Single ...

These couplers were designed for power splitting or combining of optical signals. They are widely used for optical modules and the fiber sensors, fiber testing instruments.

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 ...

It features low excess loss, small size and high polarization extinction ratio. 3x3 monolithic fused PM fiber standard splitter is widely used for optical sensors and optical gyro.

Theory The operation of 3x3 couplers in fiber interferometers is well known, the three outputs are given by  $P_1 = -2B_2(1+\cos\theta)$ ,  $P_{2,3} = B_1+B_2\cos\theta; B_3\sin\theta$

High Extinction Ratio & High Isolation, High Stability and reliability 3 x 3 configuration PM Polarization maintaining 1310nm to 1550 nM 635,780, 850 980, 1030, 1064 nM Applications: Optical Amplifiers, ...

In this report, we present a Sagnac interferometer utilizing a 3x3 fiber coupler which provides a phase bias of up to 120 degrees; for detecting refractive index modulation induced by acoustic fields, and greatly ...

We fabricated this kind of collinear 3x3 fiber coupler that agreed well with theoretical analysis and performance of this kind of coupler showed that it has the characteristic of low excess loss, large ...

The analysis shows how interferometer performance is related to four easily measured coupler characteristic parameters. The form of the interferometer utilizing the 3 X 3 coupler is shown in Fig. 1. ...

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