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High Power 2x2 Single Mode Fiber Optic Coupler/Splitter (10W, 20W)

Product Description

The HPFC Series fiber optic coupler is fully tested and burn-in at the specified high power for quality control. 2x2 can be used as 1x2 in which the reflected optical power is safely guided out through the extra fiber. An angle termination is required to avoid back reflection. The coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



Performance Specifications

| HPFC Series | | Premium P | Grade A | Unit |
|-----------------------------|----------|--------------------------------|----------|------|
| Splitting Ratio | | 0.5/99.5 to 50/50 | | |
| Bandwidth | | 1060 ± 40 and 1550 ± 40 | | nm |
| Excess Loss | | 0.07 | 0.1 | dB |
| Insertion Loss | 50/50 | 3.4/3.4 | 3.6/3.6 | dB |
| | 40/60 | 4.4/2.5 | 4.8/2.8 | dB |
| | 30/70 | 5.6/1.8 | 6.1/2.0 | dB |
| | 20/80 | 7.5/1.2 | 8.0/1.3 | dB |
| | 10/90 | 10.8/0.6 | 12.0/0.8 | dB |
| | 5/95 | 14.6/0.4 | 18.4/0.5 | dB |
| | 4/96 | 16.0/0.3 | 19.0/0.4 | dB |
| | 3/97 | 17.5/0.3 | 19.5/0.4 | dB |
| | 2/98 | 19.0/0.2 | 20.0/0.3 | dB |
| | 1/99 | 21.5/0.2 | 22.0/0.3 | dB |
| | 0.5/99.5 | 23.0/0.2 | 24.0/0.3 | dB |
| Polarization Dependent Loss | | 0.1 | 0.15 | dB |
| Uniformity | | 0.6 | 1.0 | dB |
| Optical Power Handling | | 10, 20 | | W |
| Operating Temperature | | -40~85 | | °C |
| Storage Temperature | | -50~85 | | °C |
| Package Dimension * | | Bare fiber: (ø)3x(L)54 | | mm |
| | | 900um loose tube: (ø)3x(L)70 | | |
| | | 900um loose tube: 90 (L) x16x9 | | |

Features

- Wavelength Independent
- Low Insertion Loss
- Low PDL
- Highly Stable & Reliable
- Ultra Low Cost

Applications

- Optical communications
- FTTX
- Local Access Network (LAN)
- Fiberoptic Instrumentation

Revised on 5/2/21

(Click here for latest revision)

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Ordering Information

| HPFC- | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
|-------|----------------|------------------------------------|----------------------------|---|---|-------------|--|--|--|
| | Power | Wavelength | Grade | Package | Splitting Ratio | Fiber Type | | Fiber Length | Connector* |
| | 1 =10 2 =20 | 1 = 1550 6= 1060 0 = Special | P = P Grade A = A Grade | 1 = (ø)3x 54(L) 2 = (ø)3x 70(L) 3 = 90(L)x16x9 0 = Special | 1 = 01/99 2 = 02/98 3 = 05/95 4 = 10/90 5 = 20/80 6 = 30/70 7 = 40/60 8 = 50/50 9 = 0.5/99.5 A = 3/97 B = 4/96 0 = Special | 1 =SM28 | 1 = 250μm fiber 2 = 900um tube 3 = 2mm cable 4 = 3mm cable 0 = Special | 1 = 0.5m 2 = 0.75m 3 = 1.0m 0 = Special | 0 = None 1 = FC/PC 3 = FC/APC 0 = Special |

Connector Note: These high power beam expanded connectors are made specially that must be used in pair with Agiltron type connectors. They are not compatible with regular connectors.

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.