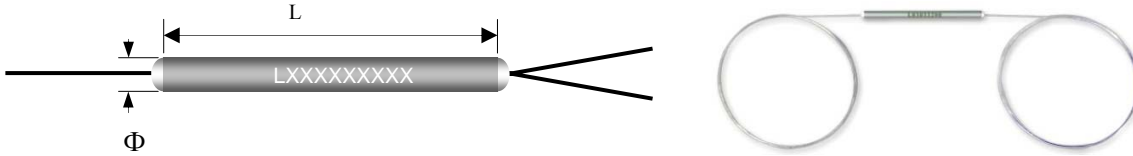


1×N (N×N) Monolithic Multi-Mode Coupler

Description

Multimode fiber couplers (MMC) are used for multimode fiber LAN systems. LightComm builds a series of MMC with low insertion loss, high reliability.

Mechanical Dimension



Specifications

| Parameter | | Grade | 1×2 (2×2)MMC | |
|----------------------------|-------|---|--------------|---|
| | | | P | A |
| Operating wavelength (nm) | | 850 or 1310, others on request | | |
| Operating bandwidth (nm) | | ±40 | | |
| Typical excess loss (dB) | | 0.4 | 0.7 | |
| Insertion loss (dB) | 50/50 | ≤3.7/3.7 | ≤4.0/4.0 | |
| | 40/60 | ≤4.7/2.7 | ≤5.0/3.0 | |
| | 30/70 | ≤6.0/2.1 | ≤6.3/2.4 | |
| | 20/80 | ≤7.8/1.4 | ≤8.1/1.7 | |
| | 10/90 | ≤11.2/0.9 | ≤11.6/1.2 | |
| | 5/95 | ≤14.5/0.7 | ≤15.0/1.0 | |
| | 2/98 | ≤18.6/0.6 | ≤19.4/0.9 | |
| | 1/99 | ≤22.0/0.5 | ≤22.8/0.8 | |
| Uniformity (50/50) (dB) | | ≤0.5 | ≤0.8 | |
| Directivity (dB) | | ≥40 | | |
| Operating temperature (°C) | | -40 ~ +85 | | |
| Fiber type (μm) | | 50/125 or 62.5/125 Multi-Mode or others | | |

| Parameter | | Type | 1×3 MMC | | 3×3 MMC | | 1×4 MMC | |
|----------------------------|--|---|---------|------|---------|------|---------|---|
| | | | P | A | P | A | P | A |
| Operating wavelength (nm) | | 850 or 1310, others on request | | | | | | |
| Operating bandwidth (nm) | | ±40 | | | | | | |
| Grade | | P | A | P | A | P | A | |
| Typical excess loss (dB) | | 0.7 | 1.0 | 1.0 | 1.3 | 0.9 | 1.2 | |
| Insertion loss (dB) | | ≤6.0 | ≤6.3 | ≤6.3 | ≤6.6 | ≤7.8 | ≤8.3 | |
| Uniformity (dB) | | ≤0.6 | ≤0.9 | ≤1.2 | ≤1.6 | ≤1.2 | ≤1.5 | |
| Directivity (dB) | | ≥40 | | | | | | |
| Operating temperature (°C) | | -40 ~ +85 | | | | | | |
| Fiber type (μm) | | 50/125 or 62.5/125 Multi-Mode or others | | | | | | |

* The above specification is without connector.

**Other specifications can be made on customer request.

Package information

| Configuration | | 1×2 or 2×2 | 1×3, 3×3, 1×4 |
|-------------------------|--------------------------|------------------------------|---------------|
| Dimensions (Φ×L)(mm) | 250μm bare fiber | Φ2.4×30, Φ2.4×42, Φ3.0×54 | Φ3.0×54 |
| | 900μm loose tube | Φ3.0×54 | Φ4.0×60 |
| | 900μm/2mm/3mm loose tube | 90×14.×8.5 | / |
| Fiber lead length | | 1 meter, others on request | |

*Other package dimensions can be made on customer request.

Ordering Information

MMC-X-XXX-XXX-XX/XX-X-X-XX/XXX-XX*XX

