### Standard Multimode Coupler

#### Features
- Low insertion Loss
- Customized Package available
- Environmentally stable.

#### Applications
- Telecommunication networks
- LAN
- Video transmission
- Fiber optic sensing
- Testing instruments

### Specifications

<table>
<thead>
<tr>
<th>ITEM</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Wavelength, nm</td>
<td>850nm or 1310nm</td>
</tr>
<tr>
<td>Grade</td>
<td>Super(S) or High(H)</td>
</tr>
<tr>
<td>Excess Loss, dB</td>
<td>0.7 or 1.0</td>
</tr>
<tr>
<td>Uniformity, dB (50:50, at specified wavelength)</td>
<td>0.7 or 1.0</td>
</tr>
<tr>
<td>Thermal Stability, dB (peak-peak)</td>
<td>≤0.20 or ≤0.25</td>
</tr>
<tr>
<td>Coupling Ratio</td>
<td>1:99 to 50:50, (50:50 standard)</td>
</tr>
<tr>
<td>Insertion Loss, dB</td>
<td>Refer to the coupling ratio vs. insertion loss chart</td>
</tr>
<tr>
<td>Directivity, dB</td>
<td>≥35</td>
</tr>
<tr>
<td>Reflectance, dB</td>
<td>≥35</td>
</tr>
<tr>
<td>Operation Temperature, °C</td>
<td>-40°C ~ 85°C (*)</td>
</tr>
<tr>
<td>Storage temperature, °C</td>
<td>-55°C ~ 85°C</td>
</tr>
</tbody>
</table>

**Package Options (for different pigtails)**
- 1. coated fiber (250μm): T5, MA, MB, M3
- 2. Loose tube (900μm): TA, MA, MB, M3
- 3. PVC cable (3.0mm): A1, MA, MB, M3

Note: (*) -20°C ~ +70°C for PVC cable.
<table>
<thead>
<tr>
<th>Coupling Ratio (%)</th>
<th>Insertion Loss(dB)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Super Grade(S)</td>
<td>High Grade(H)</td>
<td></td>
</tr>
<tr>
<td>50/50</td>
<td>3.9</td>
<td>4.3</td>
<td></td>
</tr>
<tr>
<td>40/60</td>
<td>4.9/3.0</td>
<td>5.4/3.5</td>
<td></td>
</tr>
<tr>
<td>30/70</td>
<td>6.2/2.3</td>
<td>6.7/2.7</td>
<td></td>
</tr>
<tr>
<td>20/80</td>
<td>8.0/1.8</td>
<td>8.7/2.1</td>
<td></td>
</tr>
<tr>
<td>10/90</td>
<td>11.3/1.25</td>
<td>12.2/1.6</td>
<td></td>
</tr>
<tr>
<td>5/95</td>
<td>14.9/0.9</td>
<td>16.2/1.3</td>
<td></td>
</tr>
<tr>
<td>1/99</td>
<td>22.1/0.7</td>
<td>22.7/1.0</td>
<td></td>
</tr>
</tbody>
</table>

Standard Multimode Coupler Ordering information

Connector (for both ends)
- 11-ST
- 21-FC/PC
- 31-SC/PC
- 41-LC/PC
- 51-MU/PC
- 00-None
- XX-Others

Wavelength
- 31-1310 nm
- 30-1300 nm
- 85-850 nm

Pigtail length (for each port)
- 050- 50cm
- 100- 100cm
- 150- 150cm
- 200- 200cm
- 000- Modulized
- XXX-Others

Grade
- S- Super
- H- High

Package option
- 01-T5 with coated fiber
- 02-MA/MB/M3 with coated fiber
- 11-TA with loose tube cable
- 12-MA/MB/M3 with loose tube cable
- 21-A1 with PVC cable(2.0mm)
- 31-A1 with PVC cable(3.0mm)
- 32-MA/MB/M3 with PVC cable(3.0mm)
- 33-MA/MB/M3 with adapters
- XX-Others

Port number
- 12- 1 x 2
- 22- 2 x 2

Fiber type
- 2- 50/125um
- 3- 62.5/125um
- X-Others

Coupling ratio
- 00 ~ 50 please specify

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