Connects 3 inputs to 3 outputs

**Models for Outdoor Environments**

- Low Specified PIM -161 dBC
- Just 4.8 dB coupled loss/channel
- Low and High Wireless Bands
- Convenient connector spacing

### Model CM-80E

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Frequency Range, MHz</th>
<th>Isolation, dB</th>
<th>Input VSWR</th>
<th>Specified PIM</th>
<th>Power per Input</th>
<th>Weight, lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-80D</td>
<td>694 - 800</td>
<td>&gt;25 dB</td>
<td>&lt;1.20:1</td>
<td>-161 dBC</td>
<td>150W avg</td>
<td>2.4 (1.1)</td>
</tr>
<tr>
<td>CM-80C</td>
<td>800 - 2,500</td>
<td>&gt;25 dB</td>
<td>&lt;1.20:1</td>
<td>-161 dBC</td>
<td>150W avg</td>
<td>2.4 (1.1)</td>
</tr>
<tr>
<td>CM-80E</td>
<td>2,500 - 2,700</td>
<td>&gt;23 dB</td>
<td>&lt;1.25:1</td>
<td>-161 dBC</td>
<td>3 kW peak</td>
<td>2.4 (1.1)</td>
</tr>
<tr>
<td>CM-80N</td>
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</tbody>
</table>

Add suffix ‘P’ to Model Number for Outdoor Use

- *Coupling includes dissipative loss*
- ‡Mini-DIN connectors
- †2 tone test at +43 dBm

A 3:3 Hybrid Combiner is a network which combines up to three inputs. In DAS applications, all three outputs may be used to feed different cables, essentially providing lossless combining. Any unused ports must be terminated in 50Ω at the appropriate power rating. This network is an important building block in combining boxes used in neutral host in-building DAS.

Add suffix ‘P’ to Model Number (e.g. **CM-80DP**) for added paint, when product is used in outdoor environments.

### Specifications

- Impedance: 50Ω nominal
- Environment: -35 to +65°C
- Housing Finish:
  - Indoor/IP64: Standard model
  - Outdoor/IP67: Painted
- Connectors: Triplate

Note: Specifications are subject to change without prior notification.
3 x 3 Hybrid Coupler, CM-80 series

DC Paths through CM-80

J1 - J6
J2 - J5
J3 - J4
All other paths DC isolated

Dimensions in inches [mm]