Isolated Combiner, CM-82 series
4:2 Matrix, Low Loss, 6 dB Hybrid Combiner
698 - 2,700 MHz, N or 4.3-10
Rev. C

- Connects 4 inputs to 2 outputs with minimal interaction
- Just 6 dB loss per channel
- >23 dB Isolation, Low VSWR
- Broad and High Wireless Bands
- 80W/input avg Power Rating
- Convenient connector spacing
- RoHS Compliant

This broadband 4:2 Hybrid Combiner is a network of three couplers in a convenient package with high isolation in the wireless bands and low passive intermodulation (PIM). Four inputs feed two 3 dB hybrids whose outputs are fed to a third 3 dB hybrid coupler.

This network provides simple combining of 4 independent signals in the same wireless band to a common feeder cable, as might be required in a radio base station or in a neutral host in-building distributed antenna system. The unused hybrid ports must be terminated at the appropriate power rating.

<table>
<thead>
<tr>
<th>Model Number/Conn Type</th>
<th>Frequency Range, MHz</th>
<th>Coupling/Loss (Any Path)</th>
<th>Input Isolation</th>
<th>Input VSWR</th>
<th>Power per Input</th>
<th>Peak Power</th>
<th>Weight lbs (kg) nom</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-82N</td>
<td>698 - 2,700</td>
<td>6.2 ± 1.0 dB</td>
<td>&gt;23 dB</td>
<td>&lt;1.2:1</td>
<td>80W avg.</td>
<td>3 kW</td>
<td>3.2 (1.5)</td>
</tr>
</tbody>
</table>

Impedance: 50Ω nominal
Temperature: -35° +65°C
Environment: IP64, (IP67 to order)
PIM*: -161 dBc (2x +43 dBm)
Finish:
- Housing: RoHS coated Al
- Connectors: Triplate
*measured with low PIM loads<-161 dBc available as option

Important Notes
1. May be used as 2:4 Matrix.
2. Unused ports must be properly terminated with appropriate power loads.

Note: Specifications are subject to change without prior notification.
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