

## C2034-2-3.1

Exp multicoupler, C-Series Res-Lok, pass-reject, 3.1 dB IL, 136-155 MHz

Also referred as: C2034\*2-3.1

- Compact high-performance three bandpass and one reject cavity multicoupling system
- Cable lengths between channels are not critical making expansion a simple process
- Support inter-channel frequency spacings down to 1 MHz

Sinclair's C-Series multicouplers offers excellent performance combined with ease of expandability required in many multicoupling systems. Each C-Series multicoupler channel consists of a reject cavity and one or more bandpass cavities, depending on the selectivity required. The reject cavity acts as a switch, diverting the wanted channel frequency to or from the antenna, while allowing the remaining channel frequencies to flow in the antenna feed-thru line to or from the remaining C-Series multicoupler channels.

Because cable lengths between C-Series multicoupler channels are not critical, additional channels may be easily added in the field. However, in order to minimize losses due to cabling, these interconnecting cables should be as short as possible. These highly versatile combiners offer improved performance through the addition of single or dual stage isolators and/or one or more Q-circuit cavities wherever they are required.

Sinclair's more compact Res-Lok™ 'C' series multicouplers combine Sinclair's patented Res-Lok™ construction with ease of expandability required in many multicoupling systems. Each Res-Lok™ 'C' series multicoupler channel consists of a reject cavity and two or more bandpass cavities, depending on the selectivity required. The reject cavity acts as a switch, diverting the wanted channel frequency to or from the antenna, while allowing the remaining channel frequencies to flow in the antenna feed thru line to or from the remaining 'C' series multicoupler channels. Res-Lok™ construction minimizes the number of inter-cavity cables required, and also allows horizontal or vertical mounting in a 19-inch rack.



| Region           | United States         | Europe, Middle East and Africa       | Caribbean and Latin America    | Canada and rest of the world                             |
|------------------|-----------------------|--------------------------------------|--------------------------------|--|
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### Electrical Specifications

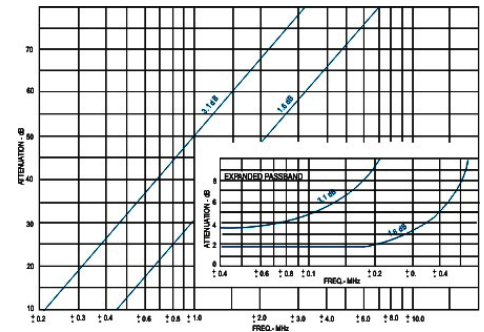
|                               |     |            |
|-------------------------------|-----|------------|
| Frequency Range               | MHz | 136 to 155 |
| Input VSWR (max)              |     | 1.5:1      |
| Average Power Input (max)     | W   | 210        |
| Input Connectors              |     | N-Female   |
| Output Connectors             |     | N-Female   |
| Thru Line Average Power (max) | W   | 1300       |
| Frequency separation (min)    | MHz | 1          |
| Insertion loss (min)          | dB  | 3.1        |

### Mechanical Specifications

|                        |          |                       |
|------------------------|----------|-----------------------|
| Depth                  | in (mm)  | 4.16 (106)            |
| Length/ Height         | in (mm)  | 38 (965)              |
| Width                  | in (mm)  | 19 (483)              |
| Weight                 | lbs (kg) | 36 (16.34)            |
| Actual Shipping weight | lbs (kg) | 50 (22.7)             |
| Shipping dimensions    | in (mm)  | 6x19x36 (152x483x914) |

### Environmental Specifications

|                   |         |                          |
|-------------------|---------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
|-------------------|---------|--------------------------|



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