

**C3027-2** Exp multicoupler, C Series, pass-reject, 7" cavities, two bandpass, one reject, 415-430 MHz

- Two bandpass cavities and one reject cavity
- Combines transmitters or receivers with inter-channel spacing down to 1 MHz
- High selectivity ideally suited for applications where significant expansion is contemplated
- Wall mount versions also available

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.



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
<b>Telephone</b>	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		C3027-2	Issue: 84	Dated: 08-10-13

### Electrical Specifications

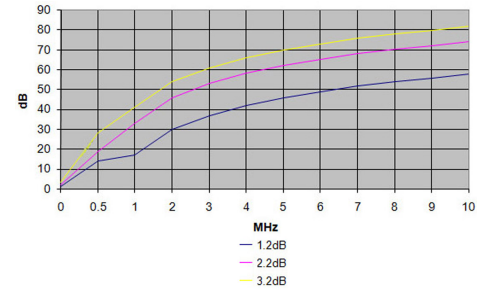
Frequency Range	MHz	415 to 430
Input VSWR (max)		1.25:1
Average Power Input (max)	W	150-300
Input Connectors		N-Female
Output Connectors		N-Female
Thru Line Average Power (max)	W	300
Frequency separation (min)	MHz	1
Insertion loss (min)	dB	1.2
Insertion loss (max) Tx to Ant	dB	3.2

### Mechanical Specifications

Depth	in (mm)	14.9 (378)
Length/ Height	in (mm)	16 (406)
Width	in (mm)	19 (483)
Net Weight	lbs (kg)	26 (11.8)
Actual Shipping weight	lbs (kg)	45 (20.43)
Shipping dimensions	in (mm)	21x17x22 (533x432x559)

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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E-mail	salesusa@sinclaire.com	salesuk@sinclaire.com	salesla@sinclaire.com	salescan@sinclaire.com
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