

C2027-1-1 Exp multicoupler, C-Series, pass-reject, 7" cavities, two bandpass, one reject, 108-114 MHz

- High performance two bandpass - one reject cavity combining system
- Cable lengths between channels are not critical making expansion a simple process
- Support interchannel frequency spacings down to 0.5 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.



www.sinctech.com

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Product Specification Sheet		C2027-1-1	Issue: 79	Dated: 08-10-13

Electrical Specifications

Frequency Range	MHz	108 to 114
Input VSWR (max)		1.5:1
Average Power Input (max)	W	150-400
Input Connectors		N-Female
Output Connectors		N-Female
Thru Line Average Power (max)	W	500
Frequency separation (min)	MHz	0.5
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)	43.75 (1111)
Width	in (mm)	19 (483)
Net Weight	lbs (kg)	41 (18.61)
Actual Shipping weight	lbs (kg)	50 (22.7)
Shipping dimensions	in (mm)	20x18x38 (508x457x965)

Environmental Specifications

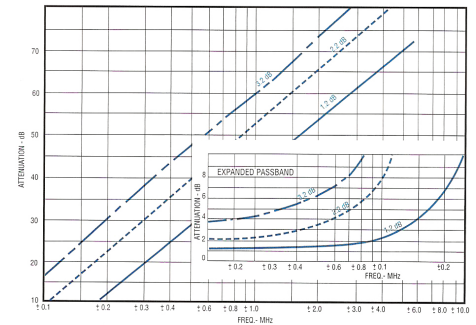
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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Notes

*1 : 400W @ 1.2 dB, 210W @ 2.2 dB, 150W @ 3.2 dB

Ordering Information

Specify pass frequency and desired insertion loss at time of order.



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