

**C3019-3** Exp multicoupler, C Series, pass-reject, 8.5" cans

- Two cavities fit horizontally on 19" rack
- Combines transmitters or receivers with interchannel spacing down to 500 KHz
- High selectivity ideally suited for applications where significant expansion is contemplated

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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Product Specification Sheet		C3019-3	Issue: 90	Dated: 08-10-13

### Electrical Specifications

Frequency Range	MHz	430 to 450
Input VSWR (max)		1.5:1
Average Power Input (max)	W	80-300
Input Connectors		N-Female
Output Connectors		N-Female
Thru Line Average Power (max)	W	300
Frequency separation (min)	MHz	0.5
Insertion loss (min)	dB	0.7
Insertion loss (max) Tx to Ant	dB	3.2

### Notes

\*1 : 300W @ 0.7Db 185W @ 1.2Db 80W @ 3.2Db

### Mechanical Specifications

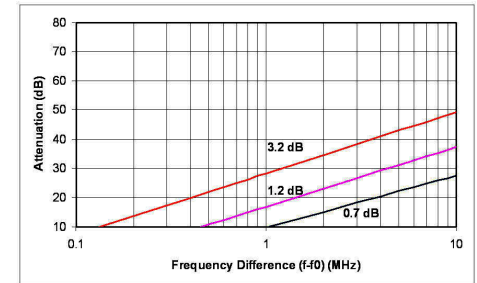
Depth	in (mm)	18 (457)
Length/ Height	in (mm)	8.75 (222)
Width	in (mm)	19 (483)
Net Weight	lbs (kg)	21 (9.53)
Actual Shipping weight	lbs (kg)	35 (15.89)
Shipping dimensions	in (mm)	23x23x12 (584x584x305)

### Ordering Information

Mounting plate and cavities painted black on standard model

### Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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