

CS2214F(DF) VHF cavity-ferrite, 8.5", 4-channel, with rack, DIN-female, load, 132-174 MHz

- Four channel, 132-174 MHz configuration
- Each System configured for optimum performance.
- Utilizing the 8.5" cavity, this is ideal for applications with minimal Tx-Rx spacings.
- Includes newest open frame rack for horizontally mounting cavities.

Sinclair's CS series of transmitter combiners incorporates expandability, close frequency spacing, and performance that is equivalent to a 10" cavity from an 8.5" cavity. Using the 8.5" cavity, the CS series easily support Tx-Tx spacings as close as 50 KHz at VHF and 80 KHz at UHF. Each cavity has a black finish, silver plated loops, and temperature compensated for operation between -30 to +60 degrees C. Every cavity is equipped with a coarse tuning rod and fine tuning nut for quick and easy field or lab re-tuning.

The CS series of combiners can combine 2 to 6 channels with single channel expansions available. All combiners include dual stage isolators with 30 watt loads on the primary stage, and 125 watt loads on the secondary. The combiner can be ordered with Sinclair's newest open frame rack for horizontally mounting of the cavities, or can be ordered without the rack if an existing rack is already present.

The CS Series of combiners are field expandable up to 10 channels.



www.sinctech.com

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Product Specification Sheet EPR 018109		CS2214F(DF)	Issue: 1	Dated: 08-10-13 Dated: 29-08-07

### Electrical Specifications

Frequency Range	MHz	132 to 174
Input VSWR (max)		1.25:1
Number of Cavities		4
Average Power Input (max)	W	125
Input Connectors		N-Female
Output Connectors		7/16 DIN-Female
Frequency separation (min)	MHz	0.05
Insertion loss Tx to antenna (typ)	dB	5.1
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Number of channels		4

### Notes

\*1 : @ minimum Tx-Tx spacing

### Mechanical Specifications

Depth	in (mm)	36 (914)
Length/ Height	in (mm)	74 (1880)
Width	in (mm)	21 (533)
Outer Conductor Material		aluminum
Weight	lbs (kg)	120 (54.48)
Finish		Black
Shipping dimensions	in (mm)	30x40x85 (762x1016x2159)
Cavity width or diameter	in (mm)	8.5 (216)

### Ordering Information

Consult with Sinclair Systems Engineer before purchase.

### Environmental Specifications

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