

**CT7150F-3** Combiner, cavity-ferrite, 7-channel, open cabinet, 0.06 MHz separation, 148-174 MHz

- 7 channel combiner with dual stage isolators and 10" high 'Q' bandpass cavity for each channel
- Can be tuned over the 148-174 MHz frequency band
- Cavities are mounted in Sinclair's Open Frame Rack
- Two racks included

This series of open-cabinet cavity-ferrite transmitter combiners is available in 2 or more channel configurations in both VHF and UHF frequencies. Each channel includes a dual, low-loss, Sinclair-manufactured isolator and a 10-inch, high Q bandpass cavity filter.

A unique low-loss junction is provided to combine channels to one antenna. Double shielded cable is used throughout the combiner to ensure high isolation between channels. These transmitter combiners are housed in painted steel 21 x 21 x 38 inch open-frame cabinets on castors for mobility. Two cabinets may be stacked vertically to conserve space.

The CT\*-150F series consists of two or more cavities with companion isolators mounted in open frames for use in the 132-174 MHz frequency range. CT\*-150F series combiners provide excellent performance with minimal insertion losses for frequency separation of 60 kHz or more. By incorporating a hybrid to couple two 4-channel units, 8 channels with 30 kHz spacing can be combined with a typical insertion loss of 8 dB, a significant improvement over a conventional hybrid-ferrite combiner. Other special frequency groupings can be made depending on the customer's application.

www.sinctech.com

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Product Specification Sheet		CT7150F-3	Issue: 3	Dated: 30-11-16

### Electrical Specifications

Frequency Range	MHz	148 to 174
Input VSWR (max)		1.25:1
Maximum Input Power (per channel)	W	125
Input Connectors		N-Female
Output Connectors		N-Female
Frequency separation (min)	MHz	0.06
Isolation Tx to Tx	dB	70
Isolation antenna to Tx	dB	60
Output VSWR		1.5:1
Number of channels		7

### Notes

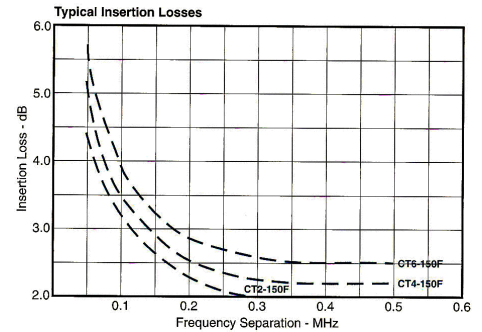
\*1 : Two boxes

### Mechanical Specifications

Width	in (mm)	21 (533)	
Depth	in (mm)	21 (533)	
Length/ Height	in (mm)	76 (1930)	
Finish		chemical conversion	
Weight	lbs (kg)	187 (84.9)	
Shipping dimensions	in (mm)	21x21x42 (533x533x1067)	*1

### Environmental Specifications

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