

**CT4150F-3** Combiner, cavity-ferrite, 4-channel, open cabinet, 0.06 MHz separation, 148-174 MHz

- 4 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

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

| 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 |                       | CT4150F-3                            | Issue: 4                       | Dated: 30-11-16  |

### Electrical Specifications

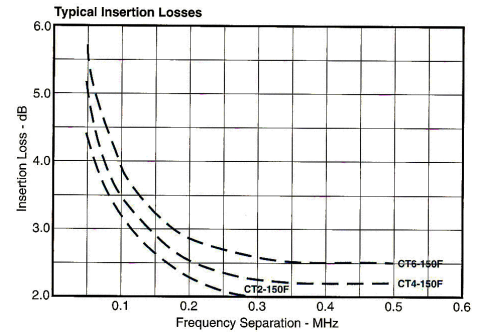
|                                   |     |            |
|-----------------------------------|-----|------------|
| Frequency Range                   | MHz | 148 to 174 |
| Input VSWR (max)                  |     | 1.25:1     |
| Maximum Input Power (per channel) | W   | 125        |
| Input Connectors                  |     | 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                |     | 4          |

### Mechanical Specifications

|                     |          |                         |
|---------------------|----------|-------------------------|
| Width               | in (mm)  | 21 (533)                |
| Depth               | in (mm)  | 21 (533)                |
| Length/ Height      | in (mm)  | 38 (965)                |
| Finish              |          | chemical conversion     |
| Weight              | lbs (kg) | 103 (46.76)             |
| Shipping dimensions | in (mm)  | 21x21x42 (533x533x1067) |

### Environmental Specifications

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



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