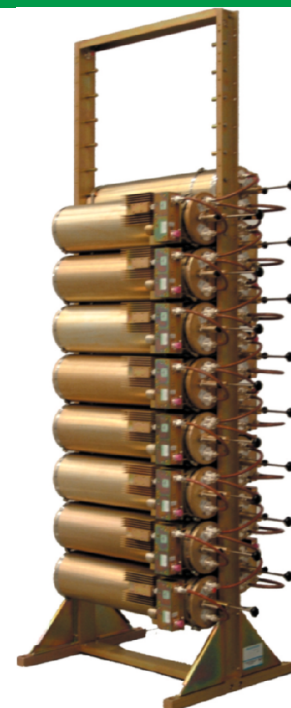


**XTC-Xpandable Transmit Combiner Series—7" Cavity**

Our eXpandable Transmit Combiners can combine from 1 to 21 channels. The XTC series of filters incorporates expandability, close frequency spacing and some of the lowest insertion losses in the industry. Using a 6.625" cavity, the XTC can easily support 75 kHz Tx-Tx spacing or 50 kHz spacing while using 10" cavities. Each cavity is constructed using a gold alodine finish, silver plated loops, silver plated connectors and an internal tuning plunger. Additionally, cavities are temperature compensated for operation between -40°C to +60°C. Every cavity is equipped with both coarse and fine tuning rods for quick and easy field or lab re-tuning.

- Flexible and expandable design, From 1-21 channel capacity
- Expandable: 1 or more additional channels at a time, Re-configurable equipment
- 108-136 MHz, 28 MHz of operating bandwidth
- Temperature compensation, Ensures frequency stability
- High attenuation, Minimizes desense and interference
- Ultra-low insertion losses, Low coupling and bridging losses
- Continuous high-power handling capability, 150 watts – 24/7



| Electrical Specifications                  | XTC-11-72                             | XTC-11-74   | XTC-11-76   | XTC-11-78   | XTC-11-7-10 | XTC-11-7-12 |
|--|---------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Frequency Range, MHz                       | 108-136                               | 108-136     | 108-136     | 108-136     | 108-136     | 108-136     |
| Bandwidth, MHz                             | 28                                    | 28          | 28          | 28          | 28          | 28          |
| Number of Channels                         | 2                                     | 4           | 6           | 8           | 10          | 12          |
| Cavity Diameter, in                        | 6.625                                 | 6.625       | 6.625       | 6.625       | 6.625       | 6.625       |
| Min. Channel Sep., KHz                     | 75                                    | 75          | 75          | 75          | 75          | 75          |
| Isolation Min., Tx-Tx, dB                  | 70                                    | 70          | 70          | 70          | 70          | 70          |
| Isolation Min., Ant-Tx, dB                 | 60                                    | 60          | 60          | 60          | 60          | 60          |
| Max. Insertion Loss Per Chan., dB          | 3.6                                   | 4.5         | 4.8         | 5.2         | 5.4         | 5.6         |
| Continuous Power Input, Watts              | 150                                   | 150         | 150         | 150         | 150         | 150         |
| Connectors                                 | N Female                              | N Female    | N Female    | N Female    | N Female    | N Female    |
| VSWR                                       | 1.22:1                                | 1.22:1      | 1.22:1      | 1.22:1      | 1.22:1      | 1.22:1      |
| Temperature °C                             | -40 to +60                            | -40 to +60  | -40 to +60  | -40 to +60  | -40 to +60  | -40 to +60  |
| Mechanical Specifications                  | XTC-11-72                             | XTC-11-74   | XTC-11-76   | XTC-11-78   | XTC-11-7-10 | XTC-11-7-12 |
| Height, in (H x W X D) (mm)<br>(In X Rack) | 86.5 x 24 x 40.25 (2197 x 610 x 1022) |             |             |             |             |             |
| Mounts in 19" Standard Rack                | Yes                                   | Yes         | Yes         | Yes         | Yes         | Yes         |
| Weight                                     | DEPENDS ON SET-UP AND RACK DESIGN     |             |             |             |             |             |
| Order Information                          | Single Channel                        | 2 - Channel | 3 - Channel | 5 - Channel | 8 - Channel |             |
| 4" Cavity                                  | XTC-10-41                             | XTC-10-42   | XTC-10-43   | XTC-10-45   | XTC-10-48   |             |
| 6.625" Cavity                              | XTC-10-71                             | XTC-10-72   | XTC-10-73   | XTC-10-75   | XTC-10-78   |             |
| 10" Cavity                                 | XTC-10-01                             | XTC-10-02   | XTC-10-03   | XTC-10-05   | XTC-10-08   |             |