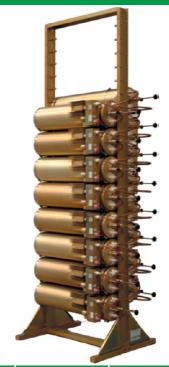
## **XPANDABLE TRANSMIT COMBINER**

## 66-88 MHz

## 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 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
- 66-88 MHz, 22 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



| <b>Electrical Specifications</b>           | XTC-06-72                             | XTC-06-74  | XTC-06-76            | XTC-06-78  | XTC-07-1   | 0 XTC-07-12 |
|--|---------------------------------------|------------|----------------------|------------|------------|-------------|
| Frequency Range, MHz                       | 66-88                                 | 66-88      | 66-88                | 66-88      | 66-88      | 66-88       |
| Bandwidth, MHz                             | 22                                    | 22         | 22                   | 22         | 22         | 22          |
| 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                     | 50                                    | 50         | 50                   | 50         | 50         | 50          |
| 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          | 4.7                                   | 5.5        | 6                    | 6.3        | 6.8        | 7.3         |
| 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-06-72                             | XTC-06-74  | XTC-06-76            | XTC-06-78  | XTC-07-1   | 0 XTC-07-12 |
| 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 Cavity                         | 2 - Chanı  | nel 3 - Cha          | annel 5 ·  | Channel    | 8 - Channel |
| 4" Cavity                                  | XTC-06-41                             | XTC-06-4   | 12 XTC-0             | 6-43 X     | TC-06-45   | XTC-06-48   |
| 6.625" Cavity                              | XTC-06-71                             | XTC-06-7   | <sup>7</sup> 2 XTC-0 | 6-73 X     | TC-06-75   | XTC-06-78   |
| 10" Cavity                                 | XTC-06-01                             | XTC-06-0   | )2 XTC-0             | 6-03 X     | TC-06-05   | XTC-06-08   |



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