XPANDABLE TRANSMIT COMBINER 108-136MHz

XTC-Xpandable Transmit Combiner Series—10" 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 -40ºC to +60ºC. 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

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
<th>XTC-11-02</th>
<th>XTC-11-04</th>
<th>XTC-11-06</th>
<th>XTC-11-08</th>
<th>XTC-11-0-10</th>
<th>XTC-11-0-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bandwidth, MHz</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
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</tr>
<tr>
<td>Number of Channels</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
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<tr>
<td>Cavity Diameter, in</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Min. Channel Sep., KHz</td>
<td>50</td>
<td>50</td>
<td>50</td>
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<tr>
<td>Isolation Min., Tx-Tx, dB</td>
<td>70</td>
<td>70</td>
<td>70</td>
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<tr>
<td>Isolation Min., Ant-Tx, dB</td>
<td>60</td>
<td>60</td>
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<tr>
<td>Max. Insertion Loss Per Chan., dB</td>
<td>4.1</td>
<td>4.8</td>
<td>5.1</td>
<td>5.4</td>
<td>5.6</td>
<td>5.7</td>
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<tr>
<td>Continuous Power Input, Watts</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
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<tr>
<td>Connectors</td>
<td>N Female</td>
<td>N Female</td>
<td>N Female</td>
<td>N Female</td>
<td>N Female</td>
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<tr>
<td>VSWR</td>
<td>1.22:1</td>
<td>1.22:1</td>
<td>1.22:1</td>
<td>1.22:1</td>
<td>1.22:1</td>
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<thead>
<tr>
<th>Mechanical Specifications</th>
<th>XTC-11-02</th>
<th>XTC-11-04</th>
<th>XTC-11-06</th>
<th>XTC-11-08</th>
<th>XTC-11-0-10</th>
<th>XTC-11-0-12</th>
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<tbody>
<tr>
<td>Height, in (H x W x D) (mm)</td>
<td>86.5 x 24 x 40.25 (2197 x 610 x 1022)</td>
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<tr>
<td>Mounts in 19&quot; Standard Rack</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Weight</td>
<td>DEPENDS ON SET-UP AND RACK DESIGN</td>
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<thead>
<tr>
<th>Order Information</th>
<th>Single Channel</th>
<th>2 - Channel</th>
<th>3 - Channel</th>
<th>5 - Channel</th>
<th>8 - Channel</th>
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<tbody>
<tr>
<td>4&quot; Cavity</td>
<td>XTC-10-41</td>
<td>XTC-10-42</td>
<td>XTC-10-43</td>
<td>XTC-10-45</td>
<td>XTC-10-48</td>
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<td>6.625&quot; Cavity</td>
<td>XTC-10-71</td>
<td>XTC-10-72</td>
<td>XTC-10-73</td>
<td>XTC-10-75</td>
<td>XTC-10-78</td>
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<tr>
<td>10&quot; Cavity</td>
<td>XTC-10-01</td>
<td>XTC-10-02</td>
<td>XTC-10-03</td>
<td>XTC-10-05</td>
<td>XTC-10-08</td>
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