

**X-Pass Ceramic Combiner**

Our Ceramic Combiner uses dielectric resonator technology to offer higher performance than standard RF cavities in a much smaller package. It combines 4 channels in only 7.75" of standard 19" rack space. The resonator allows combining of transmitters at a frequency spacing as close as 150 kHz. Lower insertion loss per channel is another result of the sharper filtering performance.

Expandable in individual channel increments. Available in Star or X-Pass (expandable) configuration.

- Available for the 764-776, 851-869 and 935-941 MHz bands
- Designed for tight channel spacing
- Lowest insertion loss, high isolation for maximum coverage and reduced interference
- Easy field expandability with X-Pass technology - one channel at a time
- Compact, robust design for rapid installations, increased mobility and ease of maintenance

**Electrical Specifications**

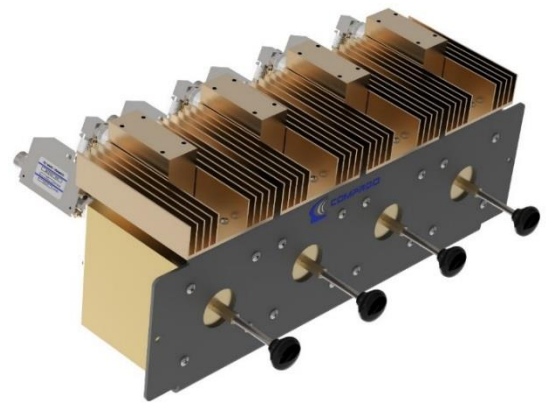
|  |   |
|--|---|
| Frequency Range, MHz                                       | 764-776, 851-869 & 935-941  |
| Frequency Spacing, Min.                                    | 150 kHz   |
| Temperature Range, °C                                      | -35 to +60  |
| TX to TX Isolation at Minimum Frequency Spacing of 150 kHz | 65 dB min (double junction isolator)  |
| ANT to TX Isolation  | 60 dB min (double junction isolator)  |
| Insertion Loss   | 1.8 dB – 4 Ch. at 500 kHz<br>2.5 dB – 16 Ch. at 500 kHz<br>3.8 dB – 24 Ch. at 500 kHz |
| Power Input / Channel (Watts)                              | 125   |
| Transmitter Input VSWR (max)                               | 1.25:1  |

**Mechanical Specifications**

|                           |                                  |
|---------------------------|----------------------------------|
| Dimensions (HWD), in (mm) | 7.75 x 19 x 14 (197 x 483 x 356) |
| Weight, lb (kg)           | 4-Channel system 32 (15)         |

**Order Information**

|               |  |           |   |           |               |
|---------------|--|-----------|---|-----------|---------------|
| <b>DRXC</b>   | -  | <b>FF</b> | - | <b>XX</b> | <b>N or D</b> |
| <b>DRXC</b>   | Dielectric Resonator X-Pass Configuration                          |           |   |           |               |
| <b>FF</b>     | Frequency band:<br>76=764-776 / 85=851-869 / 93=935-940            |           |   |           |               |
| <b>XX</b>     | Number of Channels   |           |   |           |               |
| <b>N or D</b> | Type of Connector<br>N = N Female Connectors<br>D = DIN Connectors |           |   |           |               |



**Example: Model # DRXC-76-04N**  
X-Pass Ceramic Combiner, 764-776 MHz,  
4 Channel N Connectors