

1794-XX Service Channel Filter/Combiner

EQUIPMENT DESCRIPTION - The 1794-XX Service Channel Filter/Combiner provides combining, filtering, and splitting of a service channel subcarrier signal. The transmit output has four separate outputs for driving separate sources. Conversely, the receive input has four separate inputs for multiple source applications. Frequencies are factory set and can be 5.40, 5.65, 7.045, 7.5, 8.3, 8.59, 8.85, 9.023, or 9.25 MHz. Line power can be specified as 115 VAC, 230 VAC, -24 VDC, or -48 VDC.



1794-XX Service Channel Filter/Combiner

MODELS

| TABLE 1.1 SERIES 1794 MODEL NUMBER AND FREQUENCY CHART | | | | | | | |
|--|------|-----------------------|---|----------------|---------------------------------|--------|--------|
| MODEL - # | | FREQUENCY INFORMATION | | | | | |
| - AC | - DC | Fosc | Flat ($\pm 0.5\text{dB}$) BW (0.125MHz) | Fc = Fo+0.0625 | 3db BW Fc $\pm 0.100\text{MHz}$ | | |
| 05 | 06 | 5.650 | 5.650 | 5.775 | 5.7125 | 5.6125 | 5.8125 |
| 09 | 10 | 7.045 | 7.045 | 7.170 | 7.1075 | 7.0075 | 7.2075 |
| 03 | 01 | 8.590 | 8.590 | 8.715 | 8.6525 | 8.5525 | 8.7525 |
| 07 | 08 | 8.850 | 8.850 | 8.975 | 8.9125 | 8.8125 | 9.0125 |
| 04 | 02 | 9.023 | 9.023 | 9.148 | 9.0855 | 8.9855 | 9.1855 |
| 11 | 12 | 9.250 | 9.250 | 9.375 | 9.3125 | 9.2125 | 9.4125 |
| 14 | 13 | 8.300 | 8.300 | 8.425 | 8.3625 | 8.2625 | 8.4625 |
| 15 | 16 | 5.400 | 5.400 | 5.525 | 5.4625 | 5.3625 | 5.5625 |
| 17 | 18 | 7.500 | 7.500 | 7.625 | 7.5625 | 7.4625 | 7.6625 |

Technical Specifications

CHARACTERISTIC

SPECIFICATION

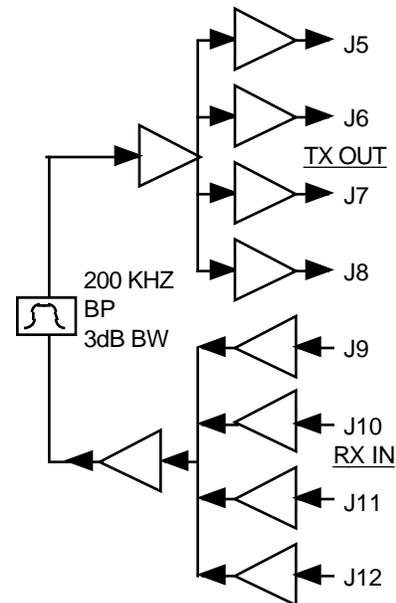
RECEIVE INPUT TO TRANSIT END-OUTPUT / SPECIFICATIONS

| | |
|--------------------|---|
| Frequency | 5.40, 5.65, 7.045, 7.5, 8.30, 8.59, 8.85, 9.023, 9.25 MHz |
| Bandwidth | 110 kHz Nominal |
| Frequency Response | ± 0.5 db, Over the 110 kHz band |
| Gain | 0, ± 0.5 dB |
| Connectors | BNC Female |

POWER / MECHANICAL

| | |
|--------------|---|
| Power AC | 105-130 or 210-260 VAC, 47-63 Hz, 15 Watts |
| Power DC | -21 to -32 or -42 to -56 VDC, 100 ma Typical 150 ma MAX |
| Size, Weight | 1-3/4" x 19"W x 13"D, 8-3/4 lbs (4Kg) |

*+10 to +40 degrees C; 2000 meters max elevation;
80% max humidity; Specifications subject to change without notice



1794-XX Service Channel Filter/Combiner Block Diagram