

M108-220-5TRDS

LOW LOSS COMBINING SYSTEM

The Model M108-220-5TRDS is a self-contained, field tunable, five-channel transmitter and receiver combiner for use in the 220 MHz trunking band. A pass-reject duplexer, four-pole pass cavity preselector, and expandable receiver distribution panel are integral parts of the system. The TPRD-22612 duplexer incorporates twelve 6-inch, high "Q" cavities to provide more than 80 dB TX-TX isolation

Mounted on a 19" x 72" rack, and utilizing highly reliable components, the M108-220-5TRDS combiner is designed to provide continuous, trouble-free service. All components are completely passive, with the exception of the solid-state receiver distribution amplifier and are easily accessible from the top or front of the rack.

A unique capacity for channel expansion allows the operator to start with as few as two channels and add additional frequencies without disruption of existing users. The M108-220-1T expansion kit provides factory-tuned components, cabling, and hardware necessary for each additional channel.

The M108-220-5TRDS and the M108-220-1T are pre-tuned at the factory and should not require adjustment in normal use. However, adjustments or frequency changes can be made from the front panel with proper test equipment and knowledge. The optional PM10C2S-1C Power Monitoring System provides RF power indication for each channel, and the system as a whole. Remote transmitter keying is also included with the PM10C2S-1C.



SPECIFICATIONS	
Channels	5 channels into one antenna
Impedance	50 ohms
Frequency range	220-222 MHz
Temperature	-30°C to +60°C
Insertion loss	3.0 dB typ at 150 KHz (determined by freq. spacing)
TX-to-TX isolation	85 dB or greater
2nd harmonic suppression	90 dB or greater
Transmitter power (max)	125 watts / channel
Rack dimensions (HWD) in. (cm)	72 x 19 x 22 (183 x 48.3 x 56)
Weight lb. (kg)	200 (90.8)

FEATURES

- 5 CHANNELS INTO ONE ANTENNA
- INTEGRATED DUPLEXER AND RECEIVER PRESELECTOR
- HIGH 80 dB ISOLATION FOR CLOSE CHANNEL SPACING
- TV CHANNEL 13 FILTERING
- 125 WATTS PER CHANNEL
- SIMPLIFIED MAINTENANCE
- OPTIONAL INTEGRATED POWER MONITORING