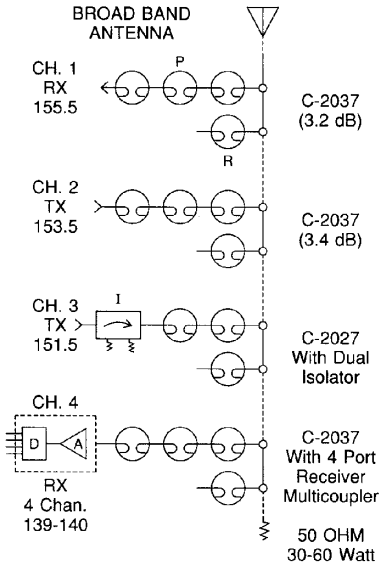
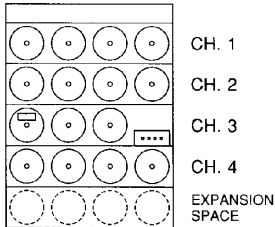


## "C" Series Multicouplers

### Typical VHF Tx/Rx Combining System



- Typical 4 channel "C" Series multicoupler combining both Tx and Rx frequencies.
- Channel / Assembly at 155.5 Rx will provide typically 75 dB isolation from other frequencies greater than 1 MHz away and typically 80 dB noise isolation from Tx 153.5.
- Note that a dual stage isolator is used on Channel 3 at 151.5 MHz to provide additional protection from IM.
- In the case of the Channel 4 at 139-140 MHz, a receiver multicoupler is used to amplify and split into 4 Rx frequencies using a 4 way power divider.
- The last channel is terminated with a 50 OHM, 15-60 watt load OR additional "C" Series modules can be added.
- Typical broad band antennas to cover 138-174 MHz are Sinclair models 210-4 or 235 with a 36 MHz band width at 1.5:1 VSWR.



Typical installation of the above Tx/Rx combining system into a unistrut open frame rack. Cavities are mounted horizontally.

Shown: EQR-4 VHF Rack  
# XAP-506-2

H — 45  
W — 33%  
D — 38

