APPENDIX B

Multicoupler Filters

1. Multicoupler Requirements
   1. All multicoupler systems must be designed for -85dbm isolation.
      1. To maintain -85dbm the use of additional notch filters may be necessary;
      2. To maintain -85dbm the use of separate receive and transmit antennas may be necessary;
      3. To maintain -85dbm the use of both additional notches and separate receive and transmit antennas may be necessary.
   2. The list below is of typical multicoupler systems that the RCMP requires. Variation in radio sites, frequencies and engineering limitations will determine when additional notches and separate antennas are required.
   3. Multicoupler systems must provide for a “Signal Sampler Port” where signals can be sampled and injected to perform corrective and periodic maintenance of the radio site without the need to take the site offline.

1. VHF

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| D.01 | Multicoupler, 138-174 MHz, 2 cylinder cavities of 7", 1 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| D.02 | Multicoupler, 138-174 MHz, 3 cylinder cavities of 7", 2 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| D.03 | Multicoupler, 138-174 MHz, 4 cylinder cavities of 7", 3 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
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1. UHF

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| E.01 | Multicoupler, 406-470 MHz, 2 cylinder cavities of 7", 1 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.02 | Multicoupler, 406-470 MHz, 3 cylinder cavities of 7", 2 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.03 | Multicoupler, 406-470 MHz, 4 cylinder cavities of 7", 3 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.04 | Multicoupler, 470-512 MHz, 2 cylinder cavities of 7", 1 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.05 | Multicoupler, 470-512 MHz, 3 cylinder cavities of 7", 2 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.06 | Multicoupler, 470-512 MHz, 4 cylinder cavities of 7", 3 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.07 | Multicoupler, 806-960 MHz, 2 cylinder cavities of 7", 1 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.08 | Multicoupler, 806-960 MHz, 3 cylinder cavities of 7", 2 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
| E.09 | Multicoupler, 806-960 MHz, 4 cylinder cavities of 7", 3 Pass +1 Notch, 1/4 wave, 150 watts and includes 19" rack mount |
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