

# MULTICOUPLERS

## VHF 66 - 88 MHz

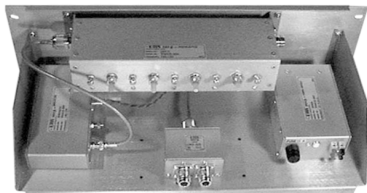
RECEIVER MULTICOUPLER

### ELECTRICAL SPECIFICATIONS

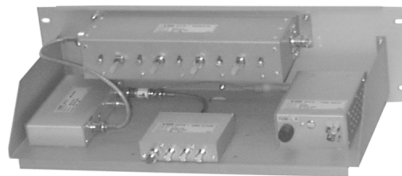
| Model Number           | 23102-1/P-5                       | 23102-0/P-5                       | 23104-1/P-5                       | 23104-0/P-5                       | 23108-1/P-5                       |
|------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Frequency Band (MHz)   | 66-88                             | 66-88                             | 66-88                             | 66-88                             | 66-88                             |
| # of Channels          | 2                                 | 2                                 | 3-4                               | 3-4                               | 5-8                               |
| Pass Band              | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           |
| # of Resonators        | 5                                 | 5                                 | 5                                 | 5                                 | 5                                 |
| Rx/Rx Isolation        | 23+ dB                            | 23+ dB                            | 23+ dB                            | 23+ dB                            | 23+ dB                            |
| System Voltage         | 115 VAC                           | 115 VAC                           | 115 VAC                           | 115 VAC                           | 115 VAC                           |
| Amplifier Gain         | +20 dB                            | +20 dB                            | +20 dB                            | +20 dB                            | +20 dB                            |
| Amplifier Type         | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          |
| Amplifier Noise Figure | 3.0 dB                            | 3.0 dB                            | 3.0 dB                            | 3.0 dB                            | 3.0 dB                            |
| Amplifier 3rd Order IP | +42 dBm                           | +42 dBm                           | +42 dBm                           | +42 dBm                           | +42 dBm                           |
| Amplifier 1 dB Comp    | +21 dBm                           | +21 dBm                           | +21 dBm                           | +21 dBm                           | +21 dBm                           |
| Amplifier Bias Voltage | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          |
| Amplifier Current Draw | 200 mA                            | 200 mA                            | 200 mA                            | 200 mA                            | 200 mA                            |
| System NF (typ.)       | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            |
| Nominal Impedance      | 50 Ω                              | 50 Ω                              | 50 Ω                              | 50 Ω                              | 50 Ω                              |
| Max. VSWR @ Resonance  | 1.25:1                            | 1.25:1                            | 1.25:1                            | 1.25:1                            | 1.25:1                            |
| Temperature Range      | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C |

### MECHANICAL SPECIFICATIONS

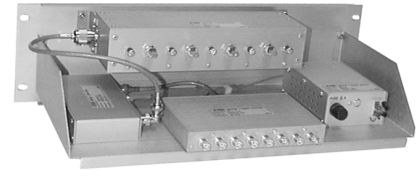
|                            |                 |                 |                 |                 |                 |
|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Dimensions: Inches (HxWxD) | 5 1/4 x 19 x 10 | 5 1/4 x 19 x 10 | 5 1/4 x 19 x 10 | 5 1/4 x 19 x 10 | 5 1/4 x 19 x 10 |
| Metric                     | 134 x 483 x 254 | 134 x 483 x 254 | 134 x 483 x 254 | 134 x 483 x 254 | 134 x 483 x 254 |
| Connectors: Input / Output | N / BNC         | N / N           | N / BNC         | N / N           | N / BNC         |
| Ship Weight: lbs. / kg.    | 12 / 5.5        | 12 / 5.5        | 12 / 5.5        | 12 / 5.5        | 12 / 5.5        |



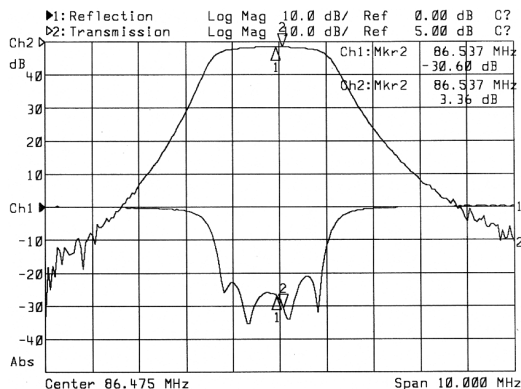
23102-0/P-5



23104-1/P-5



23108-1/P-5



# MULTICOUPLERS

## VHF 66-88 MHz

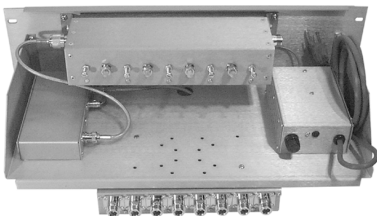
RECEIVER MULTICOUPLER

### ELECTRICAL SPECIFICATIONS

| Model Number           | 23108-0/P-5                       | 23112-1/P-5                       | 23112-0/P-5                       | 23116-1/P-5                       | 23116-0/P-5                       |
|------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Frequency Band (MHz)   | 66-88                             | 66-88                             | 66-88                             | 66-88                             | 66-88                             |
| # of Channels          | 5-8                               | 9-12                              | 9-12                              | 13-16                             | 13-16                             |
| Pass Band              | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           | 3-8 MHz                           |
| # of Resonators        | 5                                 | 5                                 | 5                                 | 5                                 | 5                                 |
| Rx/Rx Isolation        | 23+ dB                            | 23+ dB                            | 23+ dB                            | 23+ dB                            | 23+ dB                            |
| System Voltage         | 115 VAC                           | 115 VAC                           | 115 VAC                           | 115 VAC                           | 115 VAC                           |
| Amplifier Gain         | +20 dB                            | +20 dB                            | +20 dB                            | +20 dB                            | +20 dB                            |
| Amplifier Type         | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          | E-pHEMPT                          |
| Amplifier Noise Figure | 3 dB                              | 3 dB                              | 3 dB                              | 3 dB                              | 3 dB                              |
| Amplifier 3rd Order IP | +42 dBm                           | +42 dBm                           | +42 dBm                           | +42 dBm                           | +42 dBm                           |
| Amplifier 1 dB Comp    | +21 dBm                           | +21 dBm                           | +21 dBm                           | +21 dBm                           | +21 dBm                           |
| Amplifier Bias Voltage | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          | 13.6 VDC                          |
| Amplifier Current Draw | 200 mA                            | 200 mA                            | 200 mA                            | 200 mA                            | 200 mA                            |
| System NF (typ.)       | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            | 5.0 dB                            |
| Nominal Impedance      | 50 Ω                              | 50 Ω                              | 50 Ω                              | 50 Ω                              | 50 Ω                              |
| Max. VSWR @ Resonance  | 1.25:1                            | 1.25:1                            | 1.25:1                            | 1.25:1                            | 1.25:1                            |
| Temperature Range      | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C | - 22 to +140 °F<br>- 30 to +60 °C |

### MECHANICAL SPECIFICATIONS

| Dimensions: Inches (HxWxD) | 5 1/4 x 19 x 10 | 8 3/4 x 19 x 10 | 8 3/4 x 19 x 10 | 8 3/4 x 19 x 10 | 8 3/4 x 19 x 10 |
|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Metric                     | 134 x 483 x 254 | 223 x 483 x 254 | 223 x 483 x 254 | 223 x 483 x 254 | 223 x 483 x 254 |
| Connectors: Input / Output | N / N           | N / BNC         | N / N           | N / BNC         | N / N           |
| Ship Weight: lbs. / kg.    | 12 / 5.5        | 15 / 6.9        | 15 / 6.9        | 17 / 7.8        | 17 / 7.8        |



23108-0/P-5



23112-1/P-5



23116-0/P-5

