



# MU-DEL ELECTRONICS, INC.

## **Mu-Del Filter/Preamplifier Assembly MDA-1424/01060915**

This assembly is a self-contained package consisting of a Bandpass Filter, Low Noise Preamplifier and an AC Power Supply. All components are mounted in a small weatherproof box inside of which is foam filled to prevent moisture or condensation. This assembly is designed to take the output of a portable antenna system and send this signal over a coaxial cable to either a Multicoupler or a Receiver.

### **The Overall System**

- Frequency Range 1435 to 2400 MHz
- Total System Noise Figure 2.1 dB maximum, 1.8 dB typical
- Power Requirements 90-260 VAC, 47-440 Hz
- AC Power Connector 3 pin Locking Connector
- RF Connector Type N-f or user defined
- Operating Temperature -20 to +51° C
- Humidity 10 to 95%, non-condensing
- Operating Altitude 0 to 10000 feet MSL
- Impedance (input, output) 50 ohms
- Chassis Type weatherproof and internally foamed

### **Band Pass Filter**

- Passband Frequency Range 1435 to 2400 MHz
- Passband Insertion Loss 0.5 dB maximum, 0.4 dB typical
- Number of Poles 4 typical

### **Low Noise Preamplifier**

- Frequency Range 1435 to 2400 MHz
- Amplifier Gain 30 dB minimum, 33 dB typical
- Noise Figure 1.2 dB maximum, 1.0 dB typical
- Gain Flatness +/- 1.0 dB maximum, +/- 0.5 dB typical
- Power Output @ 1 dB Compression +10 dBm minimum

### **Following are some of the more popular options:**

- |                          |                             |                       |
|--------------------------|-----------------------------|-----------------------|
| Gain Adjustment          | Different Frequency Range   | Mounting Brackets     |
| AC or DC Power Indicator | Different Temperature Range | Higher Amplifier Gain |

**Please consult factory for Ordering Information and to discuss options to modify any of the above specifications.**

