



MU-DEL ELECTRONICS

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

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|-----------------------------|------------------------------------|
| • 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

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|----------------------------|--------------------------------|
| • 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

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|-----------------------------------|--|
| • 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.

