



MU-DEL ELECTRONICS, INC.

Mu-Del Medium Gain Antenna System MANT-2224-01120-RHCP

This assembly is a totally integrated system where the antenna is hard mounted to the electronic package. The RF Electronics Assembly has a maximum Noise Figure of 1.7 dB and is designed to send the RF signal over a coaxial cable to either a Multicoupler or a Receiver.

Antenna

- Frequency Range 2.0 to 2.5 GHz
- Gain @ 2250 MHz 16 dBi nominal
- 3 dB Beam Width @ 2250 MHz 25° typical
- Polarization RHCP
- Axial Ratio 2.0 dB typical
- VSWR (Input / Output) 1.5:1 maximum

Band Pass Filter

- Pass Band Frequency Range 2200 to 2400 MHz
- Pass Band Insertion Loss 0.5 dB maximum, 0.4 dB typical
- Number of Poles 4 typical

Low Noise Preamplifier

- Frequency Range 2200 to 2400 MHz
- Amplifier Gain 45 dB +/- 2 dB
- Noise Figure 0.9 dB maximum, 0.7 dB typical
- Gain Flatness 0.75 dB maximum, 0.5 dB typical
- Power Output @ 1 dB Compression +10 dBm minimum

Housing

- Power Requirements 90-260 VAC, 47-440 Hz
- Power Connector 3 pin Locking Connector
- Power Indicator LED showing power to system
- Connector Type N-f or user defined
- Mounting mounting bracket
- Chassis weatherproof and sealed
- Operating Temperature -20 to +50° C

Following are some of the more popular options:

Different Polarization (LHCP)

Different Frequency Range (L-Band)

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

