

**General Description**

The Neon is a low power, non-voice, transmitter intended for remote control of model aircraft in the 72MHz band. The unit is held with two hands in front of the body.

The equipment employs a vertical polarized antenna, directly mounted on the unit and meets Paragraphs 95.645, 95.647, 95.649, and the technical requirements established in the Report & Order in PR Docket 90-222.

**Circuits and Devices to Stabilize Frequency**

Transmitter output frequency is determined and stabilized by crystal-controlled oscillator.

**Circuits to suppress Spurious Radiation**

Final RF amplifier spurious emissions are attenuated by a “PI” matching network consisting of L3, L2, C86, C89, C89, C90, C91, C92, C93, T4 and T5.

**Functions of Active Semiconductors**

| Reference | Type       | Function                 |
|-----------|------------|--------------------------|
| Q4        | C1623      | Buffer/SW                |
| Q5        | C1623      | Modulator                |
| Q6        | C2223      | Driver/ X-Tal Oscillator |
| Q7        | C2223      | Driver                   |
| Q8        | C4910      | Final Amplifier          |
| IC1       | GMS87C1202 | Encoder                  |