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11-78 and 11-75 4 Watt NRZ UHF POCSAG Transmitters

Details of 11-78 & 11-75 Circuitry Similarities/Differences

Same circuitry;

RF lineup, synthesizer, modulator amp, modulator -low speed & high speed, VTXCO and RF oscillator, power control circuit, voltage regulators, micro-controller - substantial parts of circuitry, VCO lock.

Differences;

Input circuitry; -to pcb mounted terminal blocks (11-75), -to pcb mounted D15 socket (11-78)

Power Connection; - to pcb mounted terminal blocks (11-75), -to pcb mounted power plug (11-78).

Power adjustment/turndown circuit; 11-78 = 100mW to 4 Watt, 11-75 = 4 Watts only. Slew limiter, data generator.

Comments;

Differences between 11-78 and 11-75 relate to the input circuitry, data train generator circuitry and power adjustment circuitry.

The 11-75 generates its own data train whereas the 11-78 accepts a data train on its input. On both, the data train passes to the modulator via the micro-controller, so integrity of the data shape is maintained or controlled.

The 11-78 uses an rf power feedback circuitry to accurately adjust and control power at 100mW (EC requirement).

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