

Operational Description

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Transmitter Description

The transmitter is an integrated module (HX-1000 by RF Monolithics) that generates an on-off keyed (OOK) modulated carrier from an external CMOS endcoder (0 - 3v level).

The transmitter carrier frequency is quartz, surface-acoustic wave (SAW) stabilized to an absolute frequency range of 433.720mHZ minimum and 434.120mHZ maximum.

The output spurious harmonics are suppressed to USA & European standard by an output SAW filter. (see fig. 1) The output radiated field strength of the system is in accord with FCC Part 15 for low power radiators.

The antenna is an inductor loaded shortened printed circuit board stub antenna. The antenna is about 2" in length.

Ground for the transmitter is via circuit board ground only. No provision for external ground of the antenna has been made.

