

FUNCTIONAL DESCRIPTION

1.0 DESCRIPTION

The ACT-34B is a four channel, key-chain type transmitter operating as a low power communication device. The center frequency is SAW stabilized at 318 MHz. The data output is Megacode formatted. The transmitter case is black plastic, and has four silicone buttons on the front; two gray, one black and one red.

The ACT-34B and the Megacode format are designed for use with Linear Access 318 MHz receivers and consoles.

Each ACT-34B is programmed with a facility code and transmitter ID code. This gives a total of over 1 million possible transmitter codes. This allows for additional security and convenience of identification. Each transmitter is block coded and sold in sequentially coded groups.

Two lithium coin cell batteries, type 2016, are included. A two-ring key chain is included. The batteries should last about 5 years under normal use.

2.0 FUNCTION

The ACT-34B is activated by pressing any one of the four buttons. Until activation, microprocessor, U1, is in sleep mode. Upon activation, U1 wakes up and outputs signals to turn on the oscillator, Q1, and to provide Megacode data to the RF amplifier, Q2. The frequency of oscillator Q1 is stabilized at 318 MHz by surface acoustic wave (SAW) resonator FR1. Data output at U1-3 modulates the base of transistor Q2 which transmits the pulse-modulated carrier via the antenna, E1.

3.0 SPECIFICATIONS

Product Identification:	ACT-34B four channel mini transmitter (ACP00872).
Encoding Format:	Megacode.
Encoding Technique:	Transmitters are block coded with a sequential transmitter ID number.
Number of Channels:	Four.
Timing:	Transmission stops after 10 seconds when button is held on.
RF Carrier Frequency:	318.00 MHz $\pm$ 100 KHz.
Power Requirements:	Two 2016 3 volt batteries.
Visual Indicator:	None.
Operating Temperature:	0° C to +70° C. Tested -30° C to 70° C.
Size:	2.3" x 1.3" x 0.5"
Current Consumption:	8 mA (average) transmitting. <4 uA Standby.

All specification are nominal unless otherwise noted.