

Product : Transmitter

FCC ID : PAGTR-002

Mounting Type : Portable

Input Power : DC 12V Battery

Models :

1. TR-002A (1 to 2 Transmitter)

There are the following four buttons on the TR-002A to turn on or turn off two different receivers.

- 1.1 channel 1 on
- 1.2 channel 1 off
- 1.3 channel 2 on
- 1.4 channel 2 off

2. TR-002B (1 to 3 Transmitter)

There are the following six buttons on the TR-002B to turn on or turn off three different receivers.

- 2.1 channel 1 on
- 2.2 channel 1 off
- 2.3 channel 2 on
- 2.4 channel 2 off
- 2.5 channel 3 on
- 2.6 channel 3 off

3. TR-002C (1 to 4 Transmitter)

There are the following eight buttons on the TR-002C to turn on or turn off four different receivers.

- 3.1 channel 1 on
- 3.2 channel 1 off
- 3.3 channel 2 on
- 3.4 channel 2 off
- 3.5 channel 3 on
- 3.6 channel 3 off
- 3.7 channel 4 on

3.8 channel 4 off

4. TR-002D (1 to 1 Transmitter)

There are the following two buttons on the TR-002D to turn on or turn off one receiver.

4.1 channel 1 on

4.2 channel 1 off

Functional Description :

1. Encoding

As illustrated in Figure 1, there are 12 pins (A0 – A7, AD8 – AD11) on IC that can be hard wired to VDD or ground. The bits A0 – A7 forms a CODE to select one of 256 functions, while the bits AD8 – AD11 forms a DATA to select one of 16 functions.

These 12 pins are connected to buttons and preset at the factory. Once a button is pressed, an unique combination of CODE and DATA intended to turn on or turn off a particular channel is read into IC.

2. Resonance

The press of button also activates the resonance circuitry inside IC to generate a 315 MHz signal.

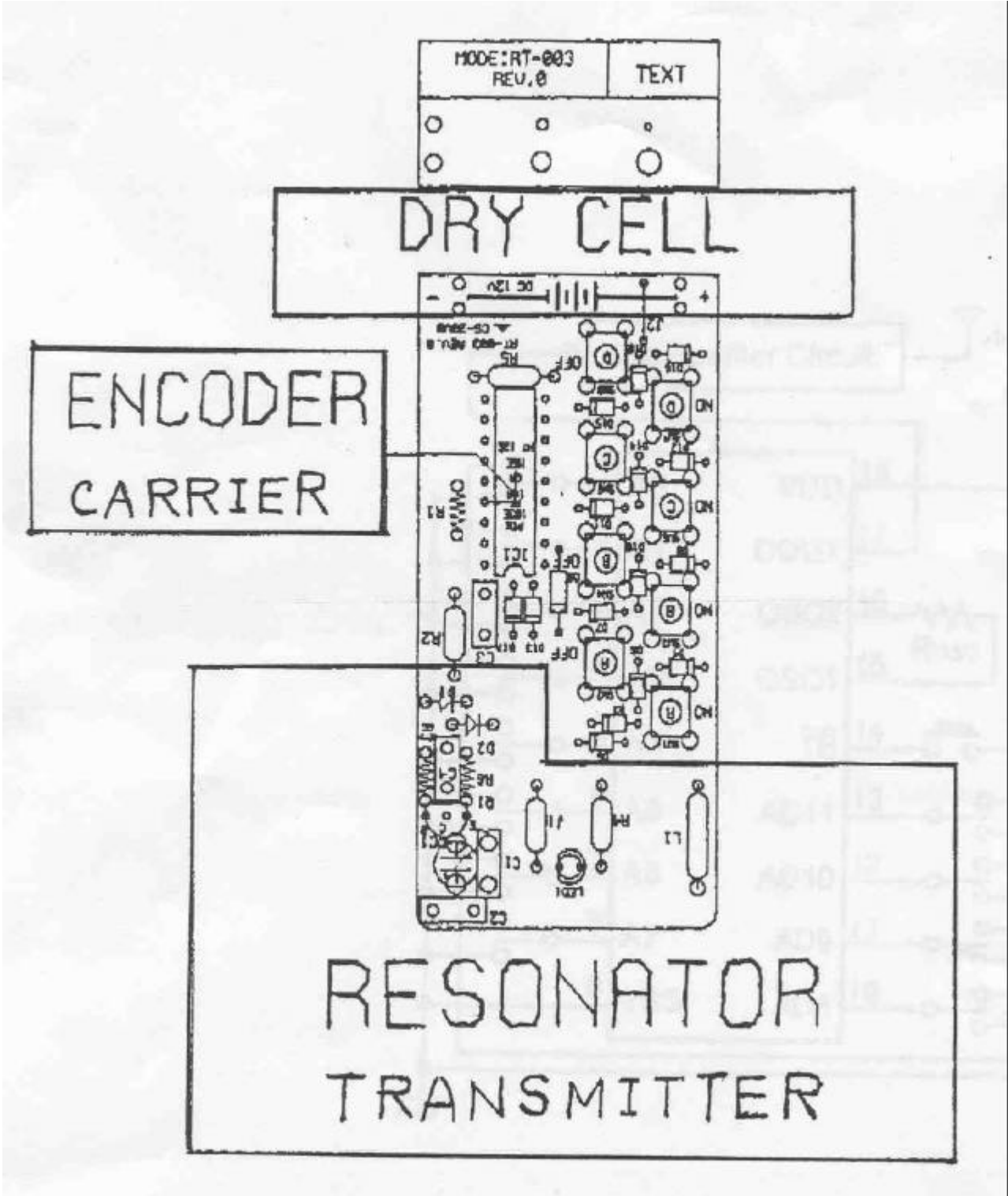
3. Wave Carrying

The encoded CODE and DATA is integrated into 315 MHz signal in the form of wave carrier.

4. Transmission

The encoded CODE and DATA carried on 315 MHz signal is transmitted sequentially by transmitter circuitry. The same CODE and DATA will be transmitted four times to ensure the effective receipt by receiver.

Figure 2 is a functional block diagram



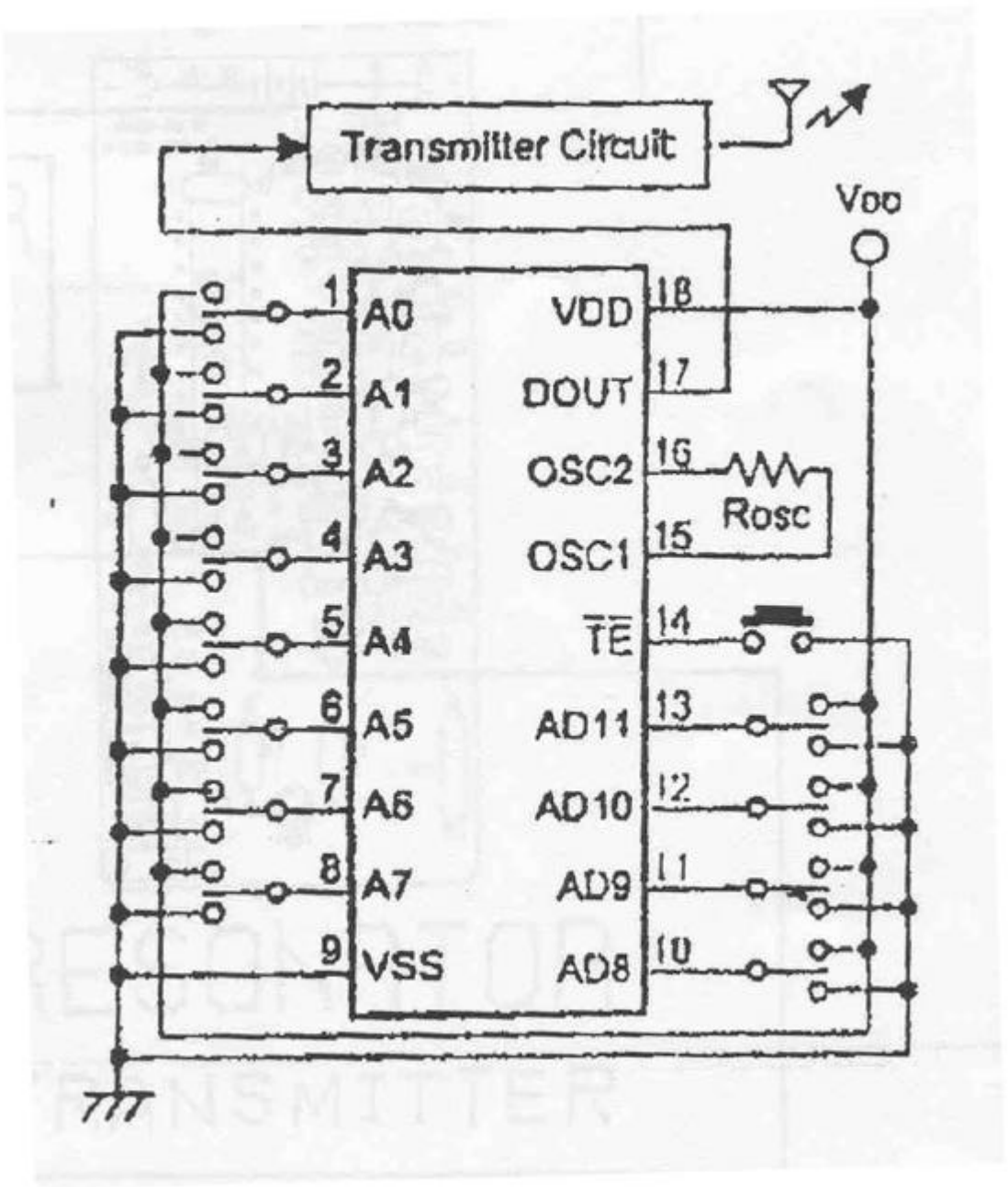


Figure 3 is a transmission flowchart.

