

2. Technical description of the system

2.1 Type number

-Transmitter : 12BBT

2.2 Specifications of transmitter

-Nominal frequency : 314.35MHz
-Local oscillator frequency : 314.35MHz SAW resonator
-Radio frequency output power : 75.6dBμV/m or less at 3m (*)
-Type of modulation : A1D
-Power Supply
 - Nominal supply voltage : 3VDC
 - Type of Battery : One lithium battery
-Antenna : Built-in type (Fixed)

* Note: Calculation of Voltage Average Level

A transmitter has the one complete pulse train

$$\begin{aligned}\text{Voltage Average Level}(\mu\text{V}) &= (\text{Epeak} * \text{Tt}) / \text{T} \\ &= (\text{Epeak} * 75\text{msec}) / 150\text{msec}\end{aligned}$$

Epeak = Voltage peak level

T = One complete pulse train time including blanking interval

Tt = Total pulse of transmitter in one complete pulse train

3.Outline of the system

3.1 Description of the system operation

This system is mainly used for locking or unlocking the doors of the vehicle.

The transmitter sends a radio wave signal while the button is pushed.

The receiver becomes active in response to the signal from the transmitter.

3.2 Transmitter

The transmitter sends a signal using radio frequency. The transmitter emits the radio frequency while the button is depressed. If the button is depressed continuously, then the transmitter will only send a signal for a predetermined constant time(For example 20 seconds. This is an auto-power-off feature)