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FUNCTIONAL DESCRIPTION

PT2262 encodes the code address and data set at A0 ~ A5 and A6/D5 ~ A11/D0 into a special waveform and outputs it to the DOUT when TE is pulled to “0” (Low State). This waveform is fed to either the RF modulator or the IR transmitter for transmission. The transmitted radio frequency or infrared ray is received by the RF demodulator or IR receiver and reshaped to the special waveform. PT2272 is then used to decode the waveform and set the corresponding output pin(s). Thus completing a remote control encoding and decoding function.

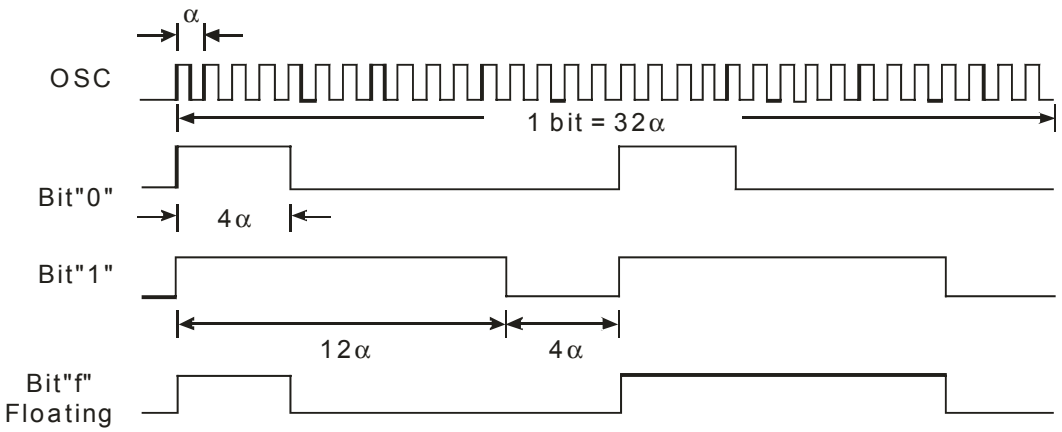
RF OPERATION

CODE BITS

A Code Bit is the basic component of the encoded waveform, and can be classified as either an AD (Address/Data) Bit or a SYNC (Synchronous) Bit.

Address/Data (AD) Bit Waveform

An AD Bit can be designated as Bit “0”, “1” or “f” if it is in low, high or floating state respectively. One bit waveform consists of 2 pulse cycles. Each pulse cycle has 16 oscillating time periods. For further details, please refer to the diagram below:



where: α = Oscillating Clock Period