

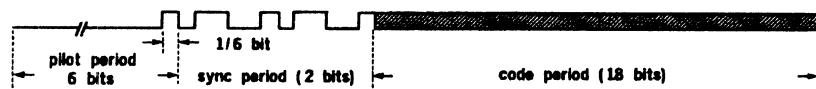
The Linx Remote Command Unit uses a Holtek encoder IC model HT-640. This device generates an 18 bit word based on the state of the data on the address pins. The worst case duty cycle for high bits is 48% as illustrated below.

### I. Functional Description —

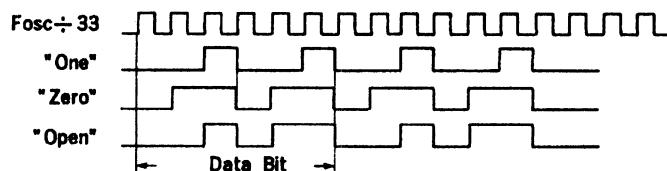


#### 1. Encoder Operation

Upon receipt of a TE signal (active high), the HT-640 begins a 3 word transmission cycle and repeats this transmission cycle until the TE signal has been removed. One transmission cycle is composed of 3 data words each contains 3 periods as shown below:

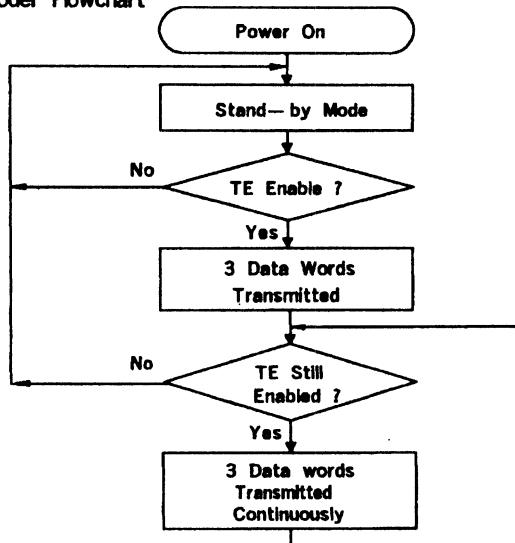


The HT-640 detects the logic state of address and data pins (A0~A13, D0~D3) and transmits these information during code period, it is capable of transmitting 4 different data with  $3^{14}$  address. Each address/data pin can be set as one of three following logic states:



The 'OPEN' state data input will be interpreted as logic low by decoder since the decoder output has only two states.

#### HT-640 Encoder Flowchart



TIME OF 1 PULSE TRAIN

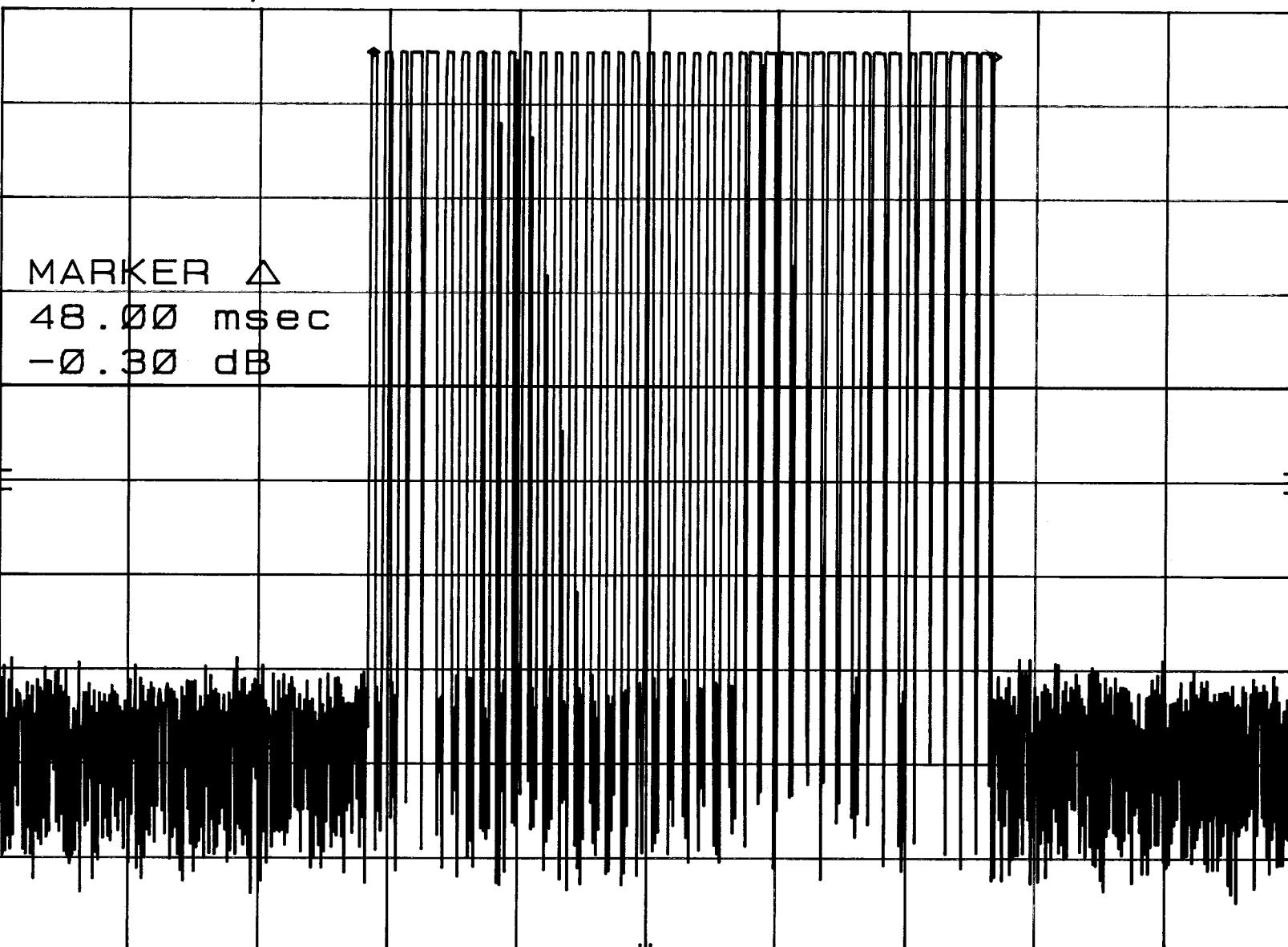
REF 100.0 dB $\mu$ V ATTEN 10 dB

MKR  $\Delta$  48.00 msec

-0.30 dB

hp

10 dB/



CENTER 418.036 030 MHz

RES BW 30 kHz

VBW 30 kHz

SPAN 0 Hz

SWP 100 msec