## ELECRAFT® K3 Installing the KTCXO3-1 TCXO

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The KTCX03-1 is an optional  $\pm 1$  ppm ( $\pm 0.5$  ppm typical) temperature-compensated crystal oscillator that replaces the standard crystal oscillator on the K3 Reference Oscillator board.

## **Contents**

The kit components are as follows:

- 1. KREF3 TCXO Oscillator Module, 49.380 MHz.
- 2. Insulator (rectangular, fits bottom of TCXO module)
- 3. Tie wrap.

## **Tools Needed**

You will need a Phillips screwdriver and cutters to trim the tie wrap. Long nose pliers are handy for installing the tie wrap. A wrist strap grounded through a 1-megohm resistor is strongly recommended to protect your K3 from ESD damage.

## **Installation Procedure**

Disconnect power and all cables from your K3.

Remove the top cover as shown in Figure 1. After the cover is open, lift it gently to reach the speaker wire connector. Unplug the speaker then set the top cover aside in a safe place.



Figure 1. Removing the Top Cover

**A** CAUTION: Touch an unpainted metal ground or wear a grounded wrist strap before touching components or circuit boards inside the K3.

	Locate the KREF3 circuit board. It is mounted against the metal shield running across the width of the K3
nea	ar the front panel (see Figure 2).
Г	Cut and remove the tie wrap holding the oscillator module in place. Notice how the tie wrap runs under the

socket to hold the module. In a later step you'll need to install the new tie wrap in the same manner.

