

**CTS CORPORATION**  
**KNIGHTS DIVISION**

**SPECIALISTS IN FREQUENCY MANAGEMENT**

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**Voltage Controlled Crystal Oscillators—VCXO**

**JKVXO-22**

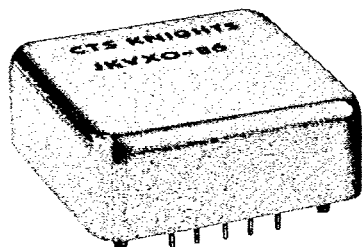


SIZE: 1.63" x 1.63" x .5"H

The JKVXO-22 is a low cost VCXO designed for phase locked loop applications. Temperature stability and deviation are customized per application. TTL, HCMOS or ECL outputs available. Operation is from +5V supply (-5V for ECL). Standard models are listed below.

MODEL	FREQUENCY RANGE	STABILITY	DEVIATION	AGING
JKVXO-22A	1 MHz to 30 MHz	±10 ppm, 0°C to +70°C	±40 ppm, 0 to +5 VDC	<2 ppm 1st yr
JKVXO-22B	30 MHz to 50 MHz	±5 ppm, 0°C to +50°C	±12 ppm, 0 to +5 VDC	<1 ppm 1st yr
JKVXO-22C	1 MHz to 30 MHz	±15 ppm, -20°C to +70°C	±100 ppm, 0 to +5 VDC	<2 ppm 1st yr

**JKVXO-86**



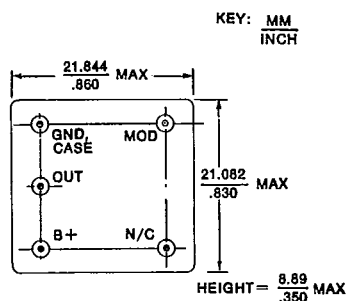
SIZE: 2" x 2" x .75" H

The JKVXO-86 is a compact, low cost VCXO designed to meet your requirements. The unit exhibits good stability over the temperature range of 0 to +55°C and provides excellent modulation characteristics.

**SPECIFICATIONS**

- FREQUENCY RANGE: 5 to 30 MHz
- FREQUENCY DEVIATION: ±1000 ppm
- MODULATION LINEARITY: ±10%
- FREQUENCY STABILITY: ±100 ppm, 0 to +55°C
- DC INPUTS: +12V @ 15 mA typ.
- MODULATION INPUT: ±3V P.P., DC to 20 KHz
- MODULATION RESPONSE: ±1 dB, DC to 20 KHz
- RF OUTPUT: Sine, 0 dBm/min.

**JKVXO-112**



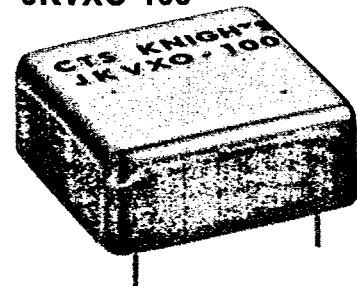
SIZE: .86" max x .83" max x .35" max (H)

The JKVXO-112 is a subminiature VCXO ideal for use in digital phase locked loop applications. A wide frequency range is available in a .25 cubic inch package.

**SPECIFICATIONS**

- FREQUENCY RANGE: 2-35 MHz
- FREQUENCY DEVIATION: ±40 to ±90 ppm
- FREQUENCY VS. TEMPERATURE: ±15 ppm, 0°C to +70°C
- OUTPUT: TTL or HCMOS
- INPUT: 5 VDC ±5%
- MODULATION INPUT VOLTAGE OPTIONS:
  - 1) 0 VDC to +10 VDC, centered at 5 VDC
  - 2) 0 VDC to +5 VDC, centered at 2 VDC

**JKVXO-100**



SIZE: .86" max x .83" max x .35" max (H)

The JKVXO-100 is a subminiature VCXO designed to meet requirements for wide pullability and good center frequency stability. Uses include digital phase locked loop applications for frequency synthesis and data reception.

**SPECIFICATIONS**

- FREQUENCY RANGE: 10 to 35 MHz
- CENTER FREQUENCY AT ROOM TEMPERATURE: ±10 ppm at time of shipment
- PULLABILITY: ±200 ppm minimum
- TEMP. STABILITY: 0°C to +60°C ±40 ppm
- OSCILLATOR INPUT: +12 VDC ±10% @ 10 mA max. +5 VDC ±10% @ 25 mA max.
- OUTPUT: TTL (5 loads)