



**Sokol  
Crystal Products, Inc.**

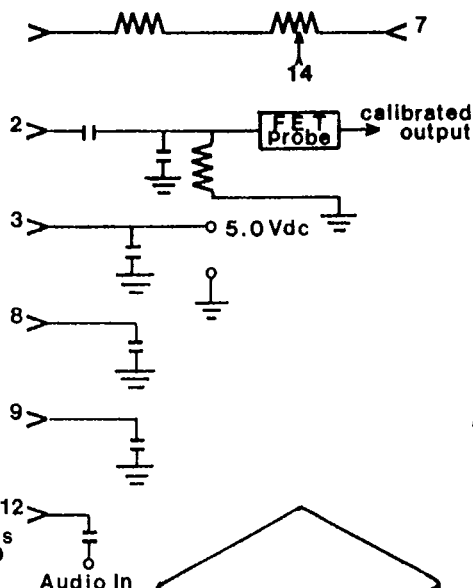
"Where the Impossible Becomes the Ordinary."

**SOKOL CRYSTAL PRODUCTS**

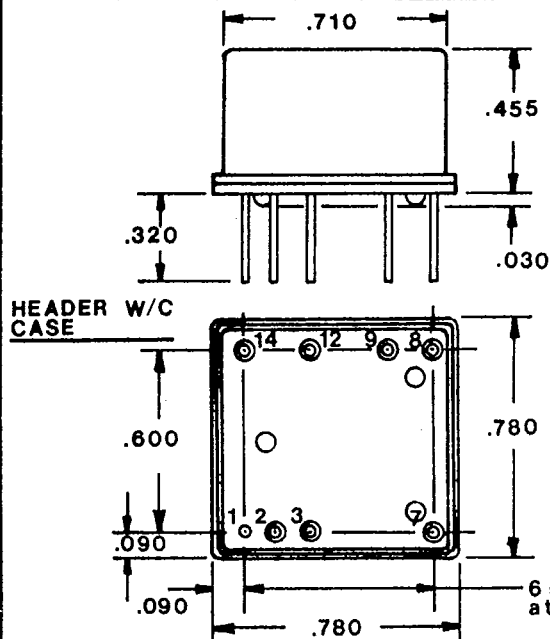
Presents (TCXO's)

Temp. Controlled Crystal Oscillator  
(8.00MHz to 50.00MHz)

**SCHEMATIC DIAGRAM**

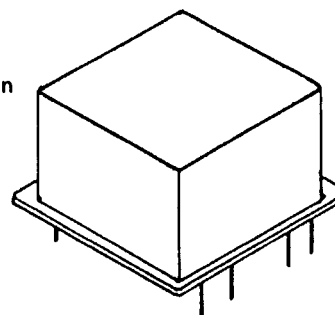


| PIN | CONNECTIONS    |
|-----|----------------|
| 1   | Ground         |
| 2   | RF Output      |
| 3   | B+             |
| 7   | Freq. Adjust   |
| 8   |                |
| 9   |                |
| 12  | Modulation In. |
| 14  | Freq. Adjust.  |



**FEATURES:**

Excellent frequency stability  
Low power consumption  
Compact size  
Available for wide temperature range



Hermetically sealed crystal & oscillator which allows standard MIL humidity performance which gives double aging protection.

| MODEL NUMBER        | 52320-001                                      | 52340-001 | 52360-001 | 52380-001 | 52400-001 |
|---------------------|------------------------------------------------|-----------|-----------|-----------|-----------|
| Frequency stability | 8.00 MHz to 50.00 MHz                          |           |           |           |           |
| vs. Temperature     | ±.5 ppm                                        | ±1 ppm    | ±2 ppm    | ±2.5 ppm  | ±5 ppm    |
| vs. Supply Voltage  | 9.6 or 5V dc ± 5ppm over ±5% of supply voltage |           |           |           |           |
| vs. Load            | ±.5ppm for 10% of load                         |           |           |           |           |

**TEMPERATURE;** Commercial: 0° to +50°C or -20° to +70°C  
Military: -40° to +85°C or -55° to +105°C

**CURRENT DRAIN:** As low as 3 ma.

**POWER OUTPUT:** 1V into 50K ohms or +1dbm into 50 ohms in a sine or sq. wave

**LOAD:** 50 ohms nominal

**SHOCK:** less than 0.5 ppm for 5000 G's at .3us

**AGING:** 0.5ppm per year max. (Special Orders Upon Request)

**VIBRATION:** less than 0.5ppm for upto 30G's at 2000 Hz.

**FREQUENCY ADJUST:** Settable to  $1 \times 10^{-7}$

**MODULATION CAPABILITY:** Optional

**USES:** Portable cellular marine and navigation applications

**NOTE:** All dimension are in inches.  
Tolerance: ±.010