

# Surface Mount Clock Oscillators

## TRI-STATE

CMOS/TTL: 4MHz to 50 MHz

- Specifically designed for surface mount. (.450"x.450"x.200")
- Plastic package facilitates pick and place by automatic handling equipment.
- Plastic case with hermetic sealed crystal and circuit.
- Sealed height less than 0.180 inch.
- Frequency from 4 MHz to 50 MHz.
- Stability options from  $\pm 100$  ppm.
- Start-up less than 10 ms.

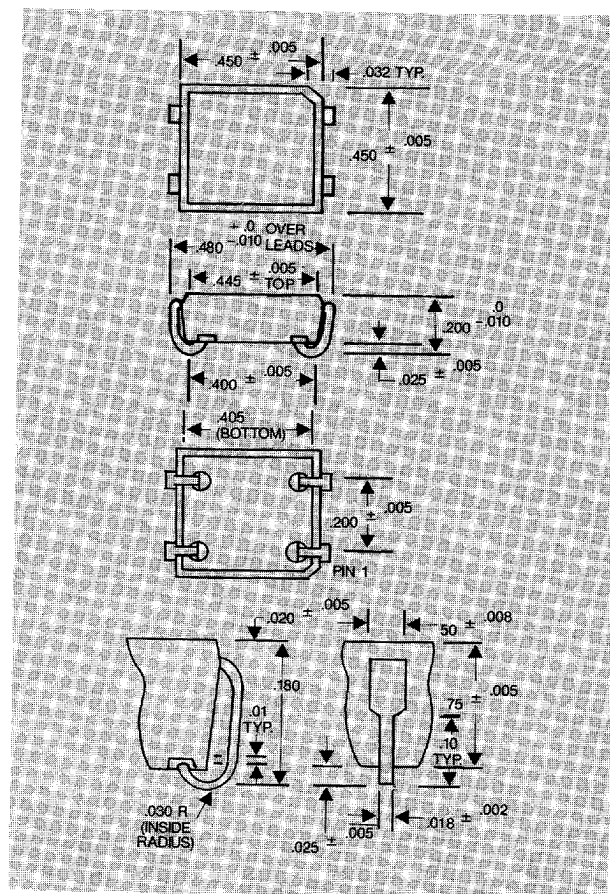
TTL Compatibility — will drive up to 10 loads. Uses standard input +5V  $\pm 10\%$ .

This is a true TTL oscillator for surface mount applications. The plastic package can be easily placed by automatic machine and soldered by infra-red or vapor-phase.

Tri-State — if Pin 1 is floated or returned to "1" the output is present. A "0" on pin 1 produces the high impedance tri-state.

This eliminates the necessity for jumpers or oscillator-removal when using automatic test equipment (ATE) to drive the board; the driving signal now may be applied to the oscillator output pin.

CRYSTEK PART NUMBER	FREQUENCY TOLERANCE (0 to 70°C)
C 1000	$\pm 100$ ppm
C 1014	$\pm 500$ ppm
C 1015	$\pm 1000$ ppm



## Surface Mount Crystals 3.5-25.0 MHz

### SPECIFICATIONS

- |                           |  |
|---------------------------|--|
| 1. ELEMENT TYPE:          | AT-Strip Resonator                     |
| 2. HOLDER TYPE:           | Surface Mount Type (.516"x.197"x.197") |
| 3. FREQUENCY:             | 3.5 - 25.0 MHz Fundamental             |
| 4. FREQUENCY TOLERANCE:   |  |
| CRYSTEK CMD3A-1           | $\pm 100$ ppm at 25°C                  |
| PART NUMBER CMD3A-2       | $\pm 50$ ppm at 25°C                   |
| 5. TEMP. CHARACTERISTICS: | $\pm 100$ ppm at -10°C to +70°C        |
| 6. SERIES RESISTANCE:     | See Table 1                            |
| 7. LOAD CAPACITANCE:      | 20 pF or Series Resonance              |
| 8. SHUNT CAPACITANCE:     | 7 pF Max.                              |
| 9. DRIVE LEVEL:           | 100uW Max.                             |
| 10. REFLOW CONDITION:     | 260°C, 10 sec. Max.                    |
| 11. TAPE & REEL:          | Available upon request                 |

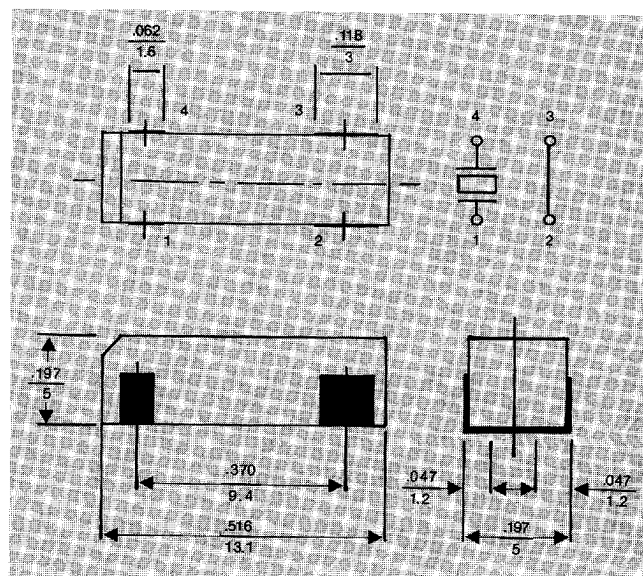


TABLE 1

FREQ. MHz	RESISTANCE OHMS MAX.
3.500 - 3.999	200
4.000 - 4.999	150
5.000 - 5.999	120
6.000 - 6.999	100
7.000 - 8.999	80
9.000 - 12.999	60
13.000 - 25.000	50