

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 ± 100 ppm.
- Start-up less than 10 ms.

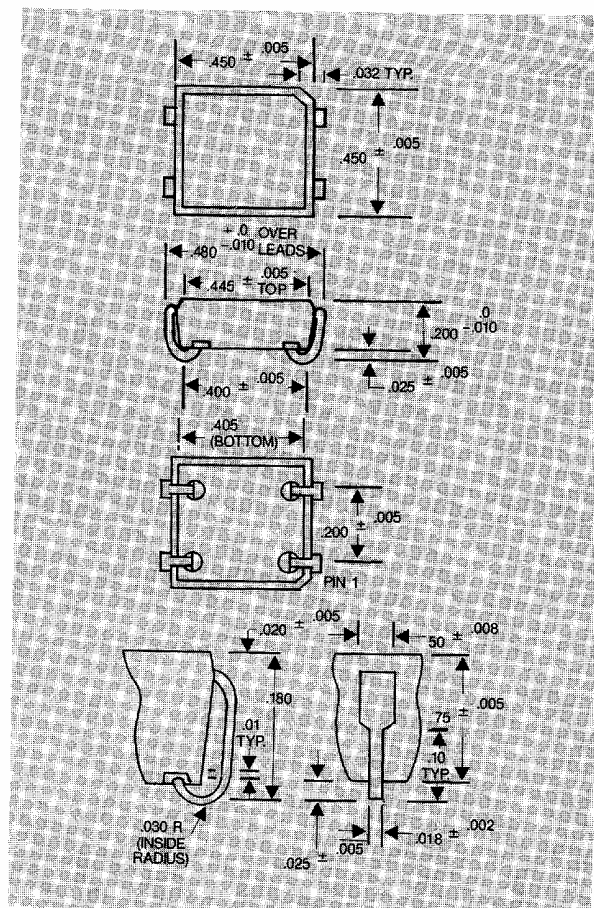
TTL Compatibility — will drive up to 10 loads. Uses standard input +5V $\pm 10\%$.

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	± 100 ppm
C 1014	± 500 ppm
C 1015	± 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	± 100 ppm at 25°C
PART NUMBER	CMD3A-2	± 50 ppm at 25°C
5. TEMP. CHARACTERISTICS: ± 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

