

Pletronics, Inc.

TTL- & HC- COMPATIBLE
CLOCK OSCILLATORS
IN MINI-DIP
(PLE SQ2200 SERIES)



- 4-pin mini-dip size saves board space.
- High speed CMOS output with full 10-TTL compatibility.
- Surface Mount (SM 2200) and throughhole (SQ 2200) options available (see drawings below).

SPECIFICATIONS

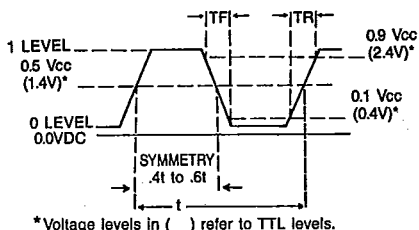
Frequency: 500 kHz to 72 MHz

Temperature Range: Operating: 0° to 70°C
Storage: -55° to 125°C

Frequency Stability: ± .01% inclusive of all parameters from 0° to 70°C
(tolerances from ± .0025% to ± .05% also available)

Input Voltage (Vcc): 5 Vdc ± 10%

Input Current: 3 to 40 mA typical; depending on crystal frequency & load



*Voltage levels in () refer to TTL levels.

PIN	CONNECTION
1	N/C (Options)
4	Circuit/Case Ground
5	Output
8	Input (Vcc)

OUTPUT WAVE FORM AND DRIVE CAPABILITIES

Test Load:
50 pF when tested as HC device;
10-TTL + 20 pF when tested as TTL device

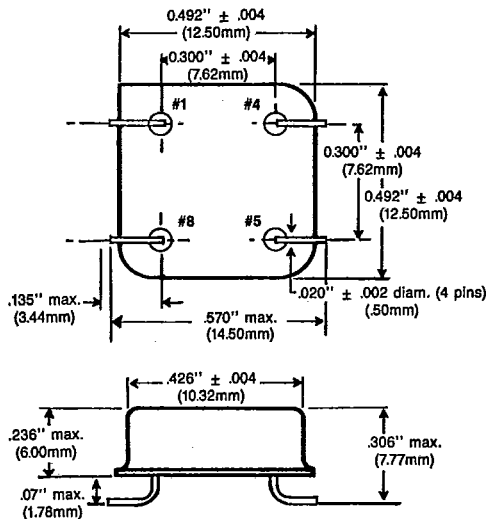
Output Symmetry:
60/40 to 40/60 (45/55 to 55/45 Typical)

Rise & Fall Times:
6 NS maximum with a test load of 10-TTL +20 pf

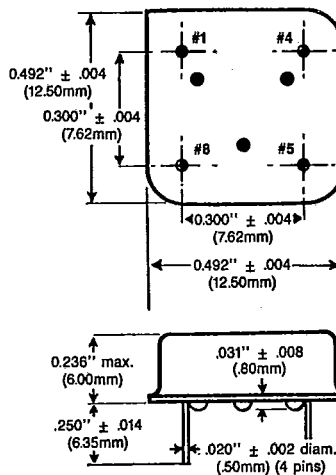
"1" Level:
90% of Vcc minimum when used as HC device;
2.4 volt minimum when used as TTL device

"0" Level:
10% of Vcc maximum when used as HC device;
0.4 volt maximum when used as TTL device

SM2200 SERIES



SQ2200 SERIES





PLE SERIES		
Models		0° to 70° C Frequency Stability
SM2244	SQ2244	± .0025%
SM2245	SQ2245	± .005%
SM2200	SQ2200	± 0.01%
SM2214	SQ2214	± 0.05%
SM2215	SQ2215	± 0.1%
SM2216	SQ2216	± 1.0%

MECHANICAL:

- Gross Leak Test:** All PLE clocks are 100% leak tested.
- Seal:** Resistance weld
- Seal Strength:** 20 pounds maximum force perpendicular to top and bottom
- Pins:** Nickel plated and solder dipped for extra corrosion protection
- Bend Test:** Pins will withstand maximum bend of 90° reference to base for two bends
- Marking Ink:** Epoxy, heat cured
- Solvent Resistance:** Isopropyl alcohol, Trichloroethane, Freon TMC