

P1145-3S, P1145-HC CMOS Series

Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA Manufacturer of High Quality Frequency Control Products

- P1145-3S: CMOS with Enable/ Disable, P1145-HC without E/D
- Full Size (14 Pin DIP) Thru-Hole Metal Clock Oscillator

650 kHz - 69.999 MHz **Standard Specifications Overall Frequency Stability** ± 50 PPM, ± 25 PPM, ± 20 PPM over Operating Temperature Range 0 to +70°C is standard, but can be extended to - 40 to +85°C for certain frequencies **Operating Temperature Range** Supply Voltage (Vcc) 5.0 volts and 3.3 volts available 40/60 to 60/40% is standard, but 45/55% at 50% of Vcc is also available (see Waveform 1) Symmetry (Duty Cycle) Logic Levels Logic "1" 90% of Vcc MIN; Logic "0" 10% of Vcc MAX Standard load is 15pF (typ. 1 ASIC) maximum, see Test Circuit 3 or 1 (consult factory for heavier loads) **Output Load** Output enabled when Pin #1 is open or at Logic "1"; Output disabled when Pin #1 is at Logic "0". -3S: Enable/Disable Option (E/D) **Rise and Fall Time** Max. Supply Current **Frequency Range** Icc (mA) w/ 15pF load Tr & Tf (nS) w/ 15pF load (MHz) 3.3V 5.0V Typical Maximum 0.650 - 10.000 7 4.0 3.0 10.001 - 25.999 10 3.5 20 2.5 26.000 - 34.999 2.5 15 25 3.5 20 30 3.5 35.000 - 50.000 2.5 2.5 50.001 - 69.999 3.5 25 35 Part Numbering Guide P11 45 - 3S V - 60.0M - XXX (Internal Code or blank) E. Packaging Tubes Series -Frequency in MHz Frequency Stability 45 = ± 50 PPM 44 = ± 25 PPM Supply Voltage (Vcc) Blank: 5.0V ± 10% 20 = ± 20 PPM V: 3.3 volts ± 10% Model 3S with E/D Special Specifications (choose all that apply) HC no E/D Blank: Std Specs (0 to +70°C, 40/60% Symmetry) E: Extended Operating Temperature Range (- 40 to +85°C) S: 45/55% Symmetry at 50% of Vcc Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load Mechanical: inches (mm) not to scale Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code. 0.200 (5.08) MAX 0.807 (20.5) MAX 0.600 (15.24) 0.031 (0.8) 500 (12.7) MAX Vcc OU 62) 14 PLETRONICS ົ 300 (7. Ó Õ 0.020 (.51)  $\bigcirc$ ໌ 0 GND -3S Pin 1 = E/D 0.250 (6.35) MAX -HC Pin 1 = N.C.

Nov 2006