

Pletronics, Inc.

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

SM7745H CMOS Series

- CMOS with Enable/ Disable or Optional Stand By Mode
- Fundamental or 3rd Overtone Crystal Used
- 4 Pad 7 x 5mm Leadless Surface Mount Ceramic Clock Oscillator

Standard Specifications

Overall Frequency Stability		SM7745H: ± 50 PPM, SM7744H: ± 25 PPM, SM7720H: ± 20 PPM over Operating Temp. Range				
Operating Temperature Range		0 to +70°C is standard, but can be extended to - 40 to +85°C for certain frequencies				
Supply Voltage (Vcc)		5.0 volts, 3.3 volts, 2.5 volts and 1.8 volts available, .01 µF bypass cap recommended				
Symmetry (Duty Cycle)		40/60 to 60/40% is standard, but 45/55% at 50% of Vcc is also available (see Waveform 1)				
Logic Levels		Logic "1" 90% of Vcc MIN; Logic "0" 10% of Vcc MAX				
Output Load		Standard load is 15 pF (typ. 1 ASIC) maximum, see Test Circuit 2 (consult factory for heavier loads)				
Enable/Disable Option (E/D)		Output enabled when Pin #1 is open or at Logic "1"; Output disabled when Pin #1 is at Logic "0".				
Frequency Range (MHz) 2 1.500 - 10.999 11.000 - 23.999 24.000 - 29.999 30.000 - 45.999 46.000 - 69.999	Max. Supp Icc (mA) w/ 2.5V, 3.3V 7 15 15 20 25	ly Current 15pF load 5.0V 10 15 20 30 45	Max. Rise and Fall Time Tr & Tf (nS) w/ 15pF load 2.5V to 5.0V 5.0 5.0 5.0 5.0 4.5	Frequency Range (MHz) 1.500 – 39.999 40.000 – 69.999	Max. Icc (mA) w/ 15pF load 1.8V 10 25	Max. Tr & Tf (nS) w/ 15pF load 1.8V 5.0 3.0

Part Numbering Guide



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 Solder Pads

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.



CMOS < 80 MHz Page 11A - 16



1.500 MHz - 69.999 MHz