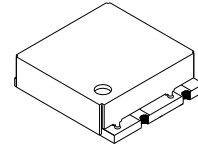




# Pletronics, Inc.

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

## SM7645H CMOS Series



- CMOS with Enable/ Disable or Optional Stand By Mode (3.3 V)
- Fundamental or 3rd Overtone Crystal Used
- 4 Pad Leadless Surface Mount Clock Oscillator

**1.500 MHz – 69.999 MHz**

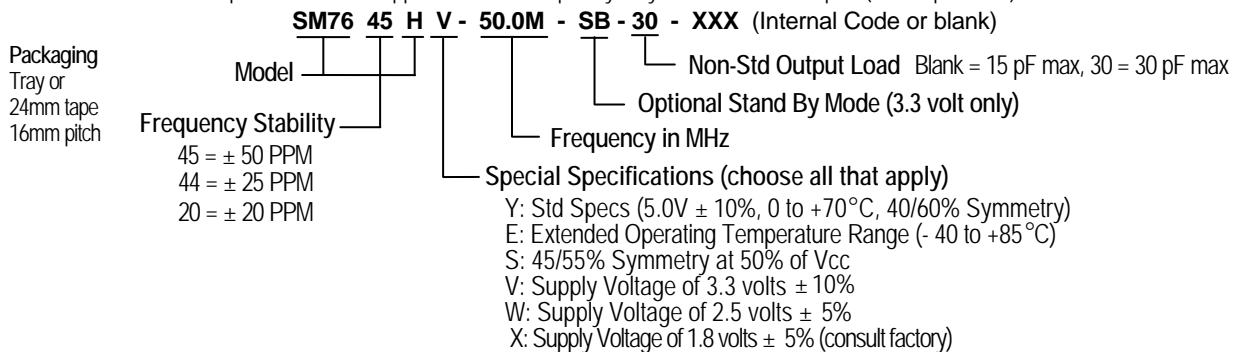
### Standard Specifications

Overall Frequency Stability	SM7645H: $\pm 50$ PPM, SM7644H: $\pm 25$ PPM, SM7620H: $\pm 20$ 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 $\mu$ F 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)	Max. Supply Current Icc (mA) w/ 15pF load		Max. Rise and Fall Time Tr & Tf (nS) w/ 15pF load		Frequency Range (MHz)	Max. Icc (mA) w/ 15pF load	Max. Tr & Tf (nS) w/ 15pF load
	2.5V, 3.3V	5.0V	2.5V to 5.0V				
1.500 – 10.999	7	10	5.0			1.8V	1.8V
11.000 – 23.999	15	15	5.0		1.500 – 39.999	10	5.0
24.000 – 29.999	15	20	5.0		40.000 – 69.999	25	3.0
30.000 – 45.999	20	30	5.0				
46.000 – 69.999	25	45	4.5				

### Part Numbering Guide

Portions of the part number that appear after the frequency may not be marked on part (C of C provided)



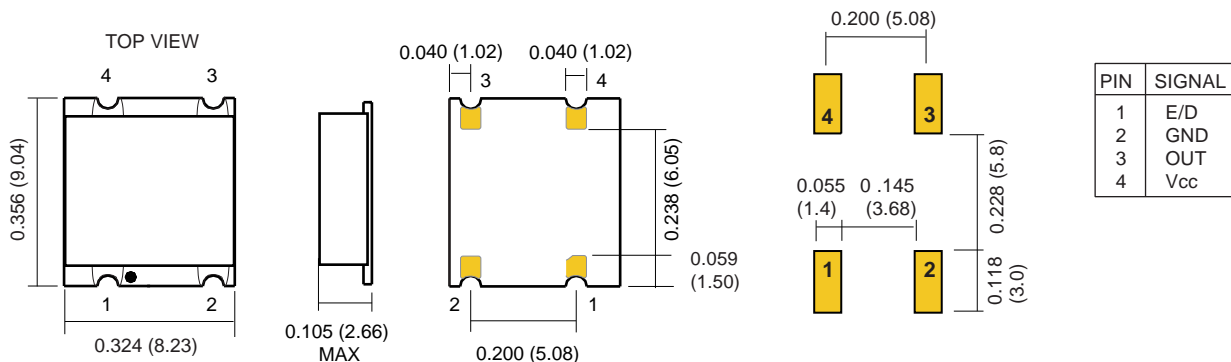
Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

### 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.



Jun 2004