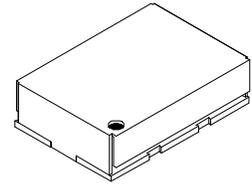




## SM1145B Series

- 4 Pad Leadless Surface Mount Clock Oscillator
- CMOS with Enable/ Disable
- Recommended for Non-Standard Specifications & Frequencies
- Solder Pad Compatible to our SM11 Series, Epson SG615 & SG8002J



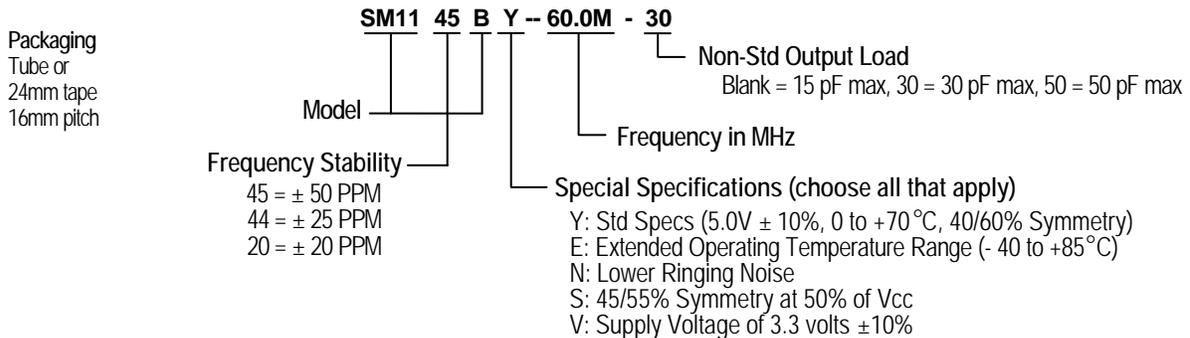
**650 kHz – 69.999 MHz**

### Standard Specifications

Overall Frequency Stability	SM1145B: $\pm 50$ PPM, SM1144B: $\pm 25$ PPM, SM1120B: $\pm 20$ 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 and 3.3 volts available
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 15pF maximum, see Test Circuit 3 (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)	Supply Current		Rise and Fall Time	
	Icc (mA) w/ 15pF load	Typical	Tr & Tf (nS) w/ 15pF load	Typical
0.650 – 19.999	8.0	10.0	4.0	5.0
20.000 – 27.999	13.0	15.0	2.0	3.0
28.000 – 34.999	15.0	20.0	2.0	3.0
35.000 – 49.999	20.0	25.0	2.0	3.0
50.000 – 69.999	33.0	37.0	2.0	3.0

### Part Numbering Guide



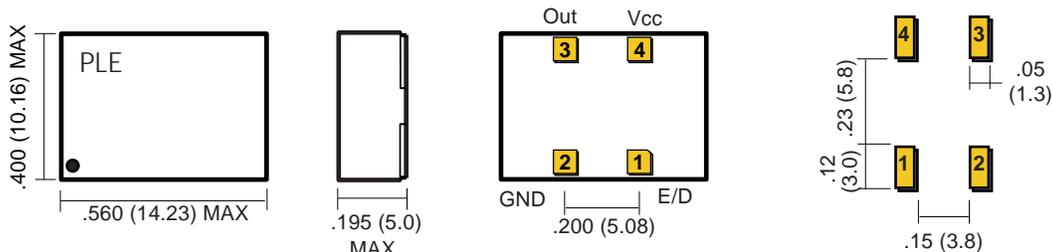
Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

### 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.



Feb 2002