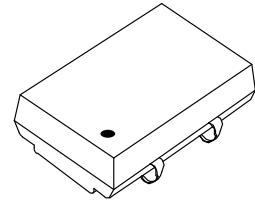




SM1145JD Series



- 4 Lead Surface Mount Plastic Clock Oscillator
- CMOS with Enable/ Disable, 3rd Overtone Crystal Used
- Low Jitter
- Solder Pad Compatible to our SM11 Series, Epson SG615 & SG8002J

70.00 MHz – 170.00 MHz

Consult factory for higher frequencies

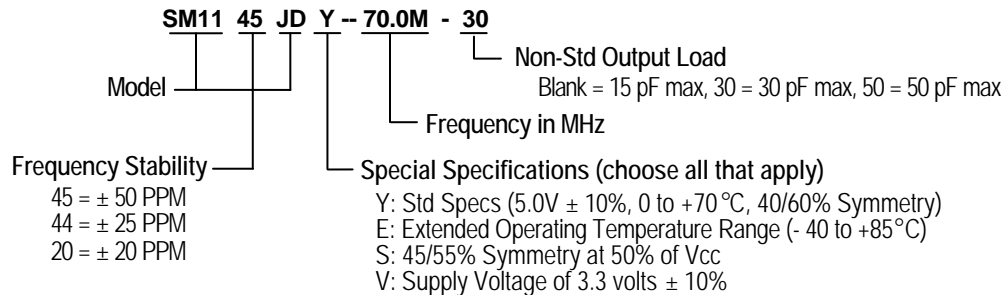
Standard Specifications

Overall Frequency Stability	SM1145JD: ± 50 PPM, SM1144JD: ± 25 PPM, SM1120JD: ± 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
Jitter	1 pS RMS maximum, from 12 kHz to 20 MHz from carrier
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	Maximum	Tr & Tf (nS) w/ 15pF load Typical	Maximum
70.000 – 79.999	40.0	45.0	2.0	3.0
80.000 – 110.000	75.0	80.0	0.5	1.0
110.001 – 119.999	80.0	90.0	0.5	1.0
120.000 – 170.000	90.0	95.0	0.5	1.0

Part Numbering Guide

Packaging
Tube or
24mm tape
12mm pitch



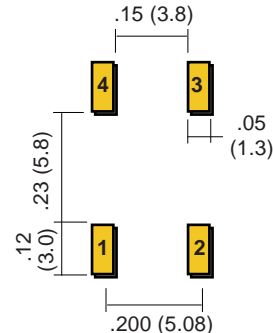
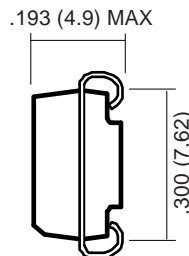
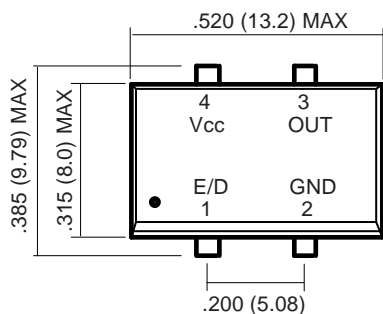
Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned. Frequency Stability is inclusive of frequency shifts due to calibration, temperature, supply voltage, shock, vibration and load

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