

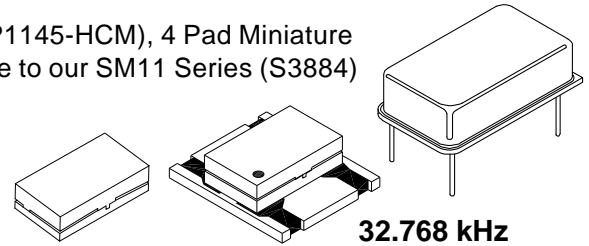


Pletronics, Inc.

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

32.768 kHz Oscillator

- Clock Oscillator Available in Full Size Metal Thru-Hole (P1145-HCM), 4 Pad Miniature Surface Mount (S3883) and Surface Mounted Compatible to our SM11 Series (S3884)
- CMOS with Enable/ Disable
- Low Power Consumption
- Fast Start-Up Time: 500 mS or Less
- 0.01 μ F Bypass Filter Included



32.768 kHz

Standard Specifications

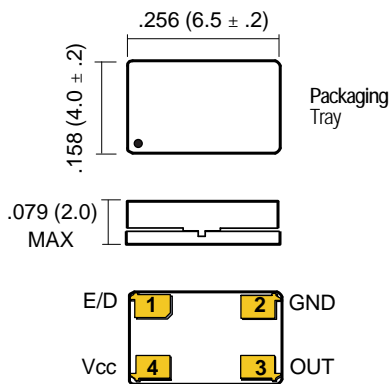
Frequency Calibration Tolerance	± 30 PPM maximum at 25°C
Operating Temperature Range	when operating at 0 to +70°C: - 60 PPM maximum
with Downward Frequency Drift	when operating at -40 to +85°C: - 200 PPM maximum
Supply Voltage Range (Vcc)	1.5 volts to 6.0 volts $\pm 10\%$
Symmetry (Duty Cycle)	45/55 to 55/45% at 50% of Vcc (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 3 (consult factory for heavier loads)
Rise and Fall Time (Tr & Tf)	100 nS typical, 150 nS maximum with 15 pF load
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".

	Vcc	1.5 V	1.8 V	2.0 V	2.7 V	3.3 V	5.0 V
Supply Current	Icc μ A typical	3.3	4.0	4.2	5.0	6.0	8.0
w/ 15pF load	Icc μ A max	9.0	10.0	11.0	12.0	15.0	20.0

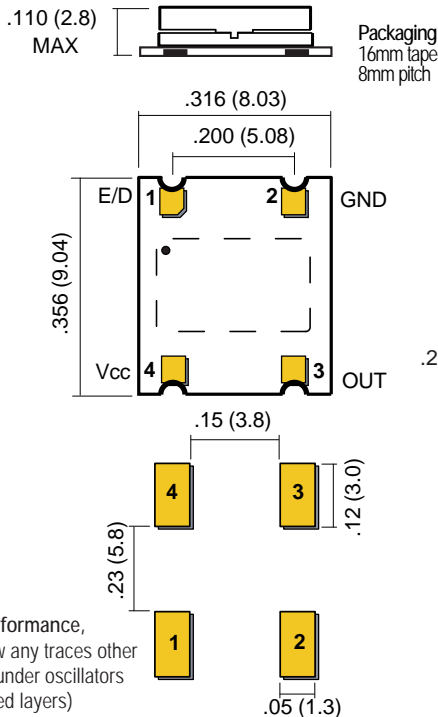
Mechanical: inches (mm) not to scale

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.

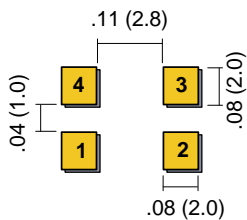
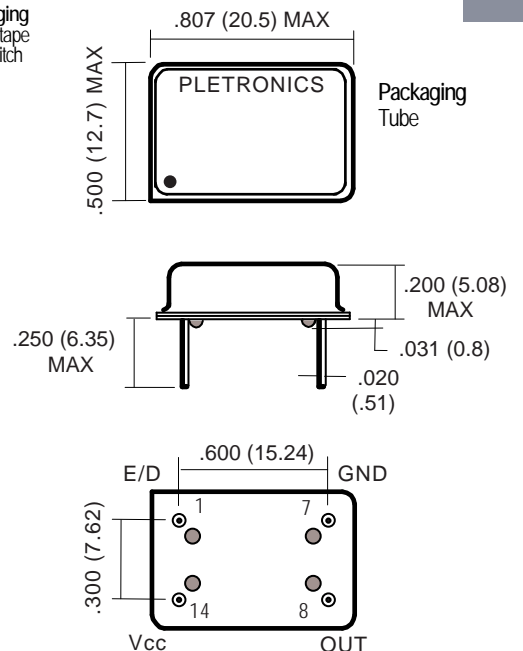
S3883-32.768K-XXX (Internal Code or blank)



S3884-32.768K-XXX (S3883-32.768K-SMD-XXX)



P1145-HCM-32.768K-XXX (Internal Code or blank)



For Best Performance,
Do NOT allow any traces other
than ground under oscillators
(Even in buried layers)

Mar 2003

32.768 kHz
Page 20