



B1144B OSCILLATOR SERIES

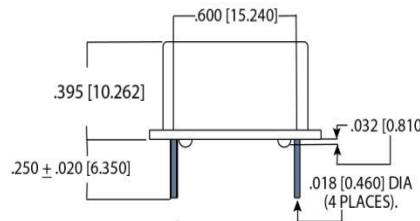
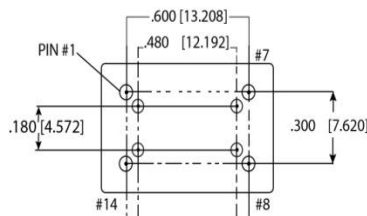
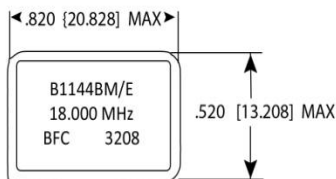
TIGHT STABILITY HCMOS/TTL OUTPUT



Features:

- Local Reference Clock
- 1.75 to 35.0 MHz Frequency Range
- ± 20 ppm Stability
- + 5V dc Input
- Enable / Disable Option Available
- Telecommunications, Modems, and Other Applications.
- Extended Temperature Version Available
- TTL/CMOS Compatible Output

ELECTRICAL SPECIFICATIONS				
Model	B1144BM/E	B1144BH/E	B1144BT/E	B1144BX/E
Frequency Range (MHz)	1.75 TO 35.0			
Frequency Stability (ppm)	Inclusive of Shock, Vibration, Calibration, Temperature, Voltage, Load, Aging			
	± 20 ppm	± 16 ppm	± 14 ppm	± 20 ppm
Temperature Range (°C)	Operating	0° to +70°C	-40° to +85°C	-30° to +70°C
	Storage	-55°C to +125°C		
Input Voltage (V)	5Vdc $\pm 5\%$			
Input Current	<50mA@25°C; <60mA over temperature range			
Voltage Stability	< ± 3 ppm			
Current Output Shorted (1 sec. max.)	-30mA min., -140mA max.			
Output Symmetry (% @ CMOS/TTL Levels)	45/55 @, 12 MHz; 40/60 @ 13-35 MHz			
T _R and T _F (ns)	4 @ TTL: 0.5V to 2.5V dc 5 @ CMOS: 20% to 80% Vcc			
"0" Level (V _{OL})	+0.5V max. @I _{OL} = 16mA			
"1" Level (V _{OH})	2.5V min. @I _{OH} = -24 mA			
High or Low Level Output Current (mA)	± 20 Absolute max. value			
Output Voltage	-0.5V to Vcc +0.5V			
Start Up Time (ms)	<10 ms max.			
Output Load	10 TTL Gates; CMOS compatible			
Load Stability	< ± 2 ppm typical; C _L = 15 μ F			
Enable/Disable	Pd LH 1 μ sec. max.; Pd HL 1 μ sec max.			
MODEL CHARACTERISTICS	B1144BM/E	B1144BH/E	B1144BT/E	B1144BX/E
Calibration	± 5 ppm	± 4 ppm	± 4 ppm	± 15 ppm
vs. Temperature	± 11 ppm 0°C TO +70°C	± 8 ppm 0°C to +60°C	± 6 ppm 0°C to +60°C	-30°C to +70°C (incl. cal. & temp.)
vs. Voltage	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Load	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Shock	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Vibration	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
1 Year Aging	± 2.0 ppm	± 2.0 ppm	± 2.0 ppm	± 3.0 ppm
Total Stability	± 20 ppm	± 16 ppm	± 14 ppm	± 20 ppm



PIN	Function
1	NC
7	Gnd
8	Output
14	+Vcc